

# AMERICAN NURSERYMAN

July 15, 1949

A. A. N. Number



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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

VOL. XCI, No. 2

JULY 15, 1949

Founded 1904  
With which was merged 1939  
THE NATIONAL NURSERYMAN  
Established 1893

\* \* \* \* \*

Published on the  
first and fifteenth  
of each month by the  
AMERICAN NURSERYMAN  
PUBLISHING COMPANY  
343 South Dearborn Street,  
Chicago 4, Illinois.  
Telephone: WAbash 2-8194

\* \* \* \* \*

Subscription Price:  
\$3.00 per year; outside  
United States, \$4.00;  
Single Copies, 15c.

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Advertising Rates  
on application.  
Forms close fifteen days  
before date of issue.

\* \* \* \* \*

Entered as second-class matter  
December 14, 1933, at Chicago,  
Ill., under act of March 3, 1879.

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## AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*  
Joan L. Kilner, *Assistant Editor*

### Editorial

#### YET ANOTHER RECORD!

Following another season in which most nursery firms showed a gain in sales volume over preceding years, this issue of the American Nurseryman might be expected to set a new high record, as it does, both in volume of advertising and in the number of pages in full color. While outstanding among the midyear issues, it represents no abnormal jump, but demonstrates the results of the gradual growth of the publication. From season to season, this magazine reflects the steady increase in sales of nursery stock, because of the growth in gardening interest the country over. In it are mirrored the satisfaction of the industry over the season just past and its optimistic attitude toward the season ahead, for which the volume and variety of advertising offered in these pages affords preparation by the purchase of merchandise, supplies and equipment.

#### THE GREAT CHELSEA SHOW.

Even though our daily newspapers present the picture of a politically and economically decadent kingdom, Great Britain is still the seat of the foremost flower show in the world. Reports from that country indicate prewar records were broken at the 1949 show, held late in May. Indeed, the problem before the Royal Horticultural Society is whether the show is not too big, because the tremendous crowds make it virtually impossible for visitors to obtain an adequate view of the exhibits. These totaled 398, an all-time high, and more than half of them were placed by nurserymen, seedsmen or florists, while the sundries section was the largest yet.

On the afternoon of opening day admission is by tickets given to fellows of the R. H. S.; soon after opening this year 30,000 persons crowded the grounds. The total attendance for the remainder of the show has not yet come to hand, but the throngs were larger than ever, at 10 shillings, or about \$2, per ticket.

While numerous pages are used to describe the show in current British horticultural periodicals, the notes about the respective exhibitors are so brief that one scarcely obtains an adequate conception of the huge exhibition.

### The Mirror of the Trade

Though businessmen in England still complain about restrictions made necessary by the economic conditions of the country, and while women write to members in Parliament about the sad condition of their underwear, the rank and file of the country maintain an interest in flowers and plants that is unsurpassed in this country, prosperous as it is. Horticulture still has much room for expansion on this side of the water.

#### BUSINESS STATISTICS.

The nurseryman who finds his mid-year figures reveal that he has had one of the best springs on record may be puzzled when he reads of the contraction in business, or the recession, in the newspapers. In talking with customers, he probably has discovered that the effect of the recession is quite varied. Some enterprises are doing as well as ever, while others are laying off help because of reduced sales. The report depends upon the line of business in which his customer is engaged.

Study of current business statistics disclosed that the general business situation, of which we read in the newspapers, has been largely affected by manufacturers and dealers who desire to reduce inventories, postpone purchasing commitments and see if lower prices will develop. A good share of the inventories were in distributors' and retailers' hands, and their position is not unlike that of the nurseryman with a barn full of old burlap, acquired during the hectic days of wartime shortages.

Most of the decline in business has been the result of tightening of pocketbooks by businessmen, rather than the consuming public. Figures compiled by the United States Department of Commerce on total personal expenditures through the first quarter of 1949, and on all retail expenditures for April, indicate that the seasonally adjusted annual rate of personal expenditures has held level since January at about two and one-half per cent under the average for the fourth quarter of 1948 and two and one-half per cent above the first quarter of 1948. These are dollar figures, while the price trend has been downward.

While the reports of sales by mail-order houses and department stores show some decline, the drop is not so much as first appears when one considers the competitive reduction in

prices in the retail field, particularly when inventories were being reduced.

Shortening of inventories can go only so far before distributors and retailers have to buy of the manufacturers again. Department store inventories have been reduced by one-third in the past year. The National Association of Purchasing Agents states that sixty-two per cent of its members are either buying from hand to mouth or on a 30-day basis.

While unemployment figures have risen somewhat, this has scarcely been a factor except in manufacturing industries. Anyone trying to hire help recently knows that most of the persons no longer on pay rolls are the least efficient and productive.

The general business structure seems sound, with none of the features which caused depressions previously. The top-heavy inventory situation that followed the first world war is not prevalent. Farm land speculation with borrowed money is not a factor, as in 1920. Neither stock market debt nor home mortgage indebtedness, pronounced in 1929, is part of the present picture. Government guarantees of mortgages and bank deposits inspire confidence. Banks have plenty of money to lend, and the public has record bank deposits, besides fifty-two billion dollars of redeemable United States savings bonds held by individuals.

Of less importance, but a considerable factor, is the public's willingness to spend or withhold purchases. As the standard of living rises, the public has a greater variety of choice in its purchases of household equipment, entertainment devices and that great array of things that can be bought by dollars not needed for the necessities of life. Spending for those extras means prosperity. But if the public holds off purchasing, for lower prices or better values, the adverse influence can be great in the aggregate. To counteract that possibility is needed more than we have had lately of good old American salesmanship.

While the price factor has a bearing, particularly in the case of manufacturing firms or other business enterprises with a high break-even point, reductions in prices of raw materials of many kinds is a helpful sign. More than that, while wages are easing rather than rising, greater productivity will cut costs. Those

[Concluded on page 99.]



# Sightseeing in San Francisco

San Francisco, the cosmopolitan city on twenty-nine hills, born of the meeting of sea captains and gold seekers, will play host to the members of the American Association of Nurserymen and their guests who attend the seventy-fourth annual convention there, July 17 to 21, at the Fairmont hotel.

The reckless gambling and evils of Barbary Coast days are merely a legend today, and San Francisco has settled down to a dignified gaiety, which cannot be dampened even by the heavy fogs rolling in off San Francisco Bay. Almost every summer morning San Franciscans can expect a few hours of mist or rain, but the chamber of commerce can still boast that from June to September the town is the coolest in the nation. Sixty-six per cent of the days in the year have sunshine, despite the city's reputation for murky weather. While daytime temperatures of summer are warm, and sometimes even unexpectedly hot, night temperatures are always cool.

## Over the Bay.

Special trains will bring A. A. N. visitors to the city of Oakland, whence they will cross the bay by ferry boat to the terminal at the foot of Market street, San Francisco. This passenger station was opened in 1875, and four years later the world's largest ferry boat carried whole railroad trains across the bay, and the ferry system grew to be the largest transportation enterprise of its kind in the world.

Approaching the city, the travelers will see the two largest bridges in the world, the San Francisco-Oakland bridge, built in 1936, and the even larger structure, the Golden Gate bridge, built in 1937, which is the world's largest single-span bridge.

## City of Hills.

Approached from the bay, San Francisco appears as a skyline of dense buildings and hills. Some are so steep that sidewalks are built as steps, and streets appear to newcomers too treacherous for driving. Good brakes are necessary, as is strict ad-

herence to parking instructions. Cable cars, which can stop only at the level intersections, are the only form of public transportation on the steepest hills, though new-type busses are appearing on some of them.

The geographical center of the city is Twin Peaks, two hills of about equal height, which offer one of the best views of the city, the bay and surrounding country. Of the city's other hills, the three highest are Telegraph Hill, where watchers signaled the arrival of ships in the old days and where most visitors now go to gaze down upon the city; Russian Hill, formerly a burying ground for

section of the nineteenth century. The first Fairmont hotel was built by his daughter, Tessie Fair Oelrichs, as a tribute to her father and became the rendezvous of the rich. The Mark Hopkins hotel, directly across the street, stands on the site of a mansion built by the wealthy railroad man, Mark Hopkins, and some of its tower apartments boast solid gold bathroom fixtures. Almost everyone has heard of the Top of the Mark, the cocktail lounge through whose plate-glass windows an excellent view of the city and the bay area is to be had.

The settlement of San Francisco began in 1776, when thirty Spanish soldiers and their families established an outpost there. For seventy years, this settlement, called Yerba Buena, was occupied chiefly by the military. In 1836, a boisterous 2-day celebration, given by Jacob Leese, a trader, to celebrate both the Fourth of July and the completion of his new house, saw the Stars and Stripes hoisted for the first time over the little settlement.

## Early History.

Ten years later, during the Mexican War, a company of sailors and marines under the command of Capt. John Montgomery landed at Yerba Buena and permanently hoisted the American flag. The population neared 1,000 by 1848, and one year later the gold rush had drawn ten times that number, mostly men, and of twenty nationalities. The raucous new city burned to the ground six times in a year and one-half, and each time it was rebuilt larger. In the next seventy years, it blossomed into one of the world's famous cities. Except for the earthquake and fire of 1906, nothing markedly changed the city until the abnormal influx of population during the recent war.

## Landmarks to Visit.

Visitors to San Francisco can find entertainments to suit almost any mood and food to suit almost any taste. Like other famous cities, San Francisco has landmarks which its



The Largest Chinese Colony Outside China Is in San Francisco.

Russian soldiers and the site of the city's oldest residence, built in 1862 of oaks and timbers that sailed around Cape Horn, and Nob Hill, which was once resplendent with marble and stone castles of men who made their millions from the Comstock Lode silver mines and which is now covered with towering apartment houses and hotels, including the Fairmont hotel and the Mark Hopkins hotel, where A. A. N. visitors will stay.

A. A. N. headquarters, the Fairmont hotel, is built on foundations laid by James G. (Bonanza Jim) Fair for a Nob Hill manor to outshine all others in the city's elite residential

people cherish. There is the turntable at Powell and Market streets, where passers-by help the motorman and conductor turn the cable cars around. The dawdling cable cars stall traffic, lose money and endanger lives, according to the former mayor's transportation planning council, which tried to reconvert the system to handle the city's new population load. When it was proposed that the cable cars be scrapped for more modern vehicles, a citizens' committee was organized to save the cable cars, and the mayor's planning council relented. At the one end of the cable car line is Fisherman's Wharf, where Italian restaurateurs cook crabs in great iron cauldrons on the curb, and where fishermen repair nets above their gently bobbing blue boats. There is the "Monkey Block" dating back to 1863, which survived the earthquake and the fire of 1906. Once the home of the stock exchange, it became in recent years a Bohemian residential quarter. Today, Montgomery street is the Wall street of San Francisco. Mission Dolores Garden is a real live flashback to the easy-going era of the Spanish days.

The city's main shopping district is at the foot of Nob Hill, so visitors have only to walk or ride down the hill to the shops. The ladies in particular should enjoy some of the city's well known department stores and specialty shops, such as I. Magnin's, City of Paris and the White House. One of San Francisco's and, in fact, one of the world's most famous stores, is that of F. G. Gump & Co., better known as Gump's, which is an institution for collectors of Oriental art. Here, everything in Oriental art, costly jade, paintings,

furniture, silks, etc., is sold and displayed. The city's many flower shops are another attraction, and the window displays often draw crowds, particularly those of Podesta & Baldocchi. San Francisco is known for its flower stands on its busy street corners, where boutonnieres, corsages and bouquets may be purchased.

And there are many more things to see, such as Grace Cathedral on Nob Hill, which San Franciscans started building in 1914 and are still building. There are landmarks of history, such as Portsmouth Square, where the town began and where Robert Louis Stevenson spun yarns with sailors. There are the sections of the city that reveal San Francisco as one of the nation's greatest cosmopolitan cities, such as Chinatown, Little Italy, Little Mexico, Little Harlem, the International Settlement which is the old Barbary Coast, the Embarcadero and many more, all offering visitors a wealth of interesting sights to see while at San Francisco.

#### Chinatown.

One of the most interesting sections of the city to most sightseers is Chinatown, with its gilded pagoda-front Grant avenue bazaars, offering an unlimited array of Oriental articles from dried fish to silk kimonas and costly jewelry. Tourists to San Francisco's Chinatown seldom miss a visit to the Chinese telephone exchange on Washington street, a triple-pagoda building of traditional Chinese architecture. Amid the decor of red and gold-trimmed lacquer and gold dragons, the Chinese switchboard operators, who know every subscriber's name as well as his street address and telephone number, are

in many cases daughters and granddaughters of the men operators who were employed when the exchange opened in 1894. They are required to speak five Chinese dialects in addition to English. Beyond the tourist center, Chinatown is about twenty square blocks of crowded, dingy, semislums. In this area there are a number of night clubs where Chinese chorines make up the floor shows and Oriental food is served.

#### Gourmets' Delight.

Eating in San Francisco can be an art and an evening's entertainment, for there are over 3,500 restaurants in the city. At the well known old-time restaurants one can eat foods of many lands. For Chinese dishes, the swankiest of the Chinese restaurants is the Cathay House; for the best of Armenian and Near East dishes, Omar Khayyam's offers excellent fare; for dishes rivaling the famous Antoine's at New Orleans, there is Amelio's; for French dishes, there are Camille's and Jack's; for Spanish menus, the House of Harris, and for sea foods, the Cliff House, Tarantino's and a number of other well known spots on Fisherman's Wharf. In addition to these random few, there are hundreds of others.

#### Golden Gate Park.

One of the sightseeing trips planned for A. A. N. visitors is a bus tour through San Francisco, including Chinatown, Fisherman's Wharf, Golden Gate park and, across Golden Gate bridge, Muir Woods.

Golden Gate park is an amazing example of man's mastery over nature, for it was developed out of 1,017 acres of wind-swept sand. In 1870, when the city set out to de-



Howard C. Taylor.

## WELCOME TO SAN FRANCISCO

July is A. A. N. convention time, and each year this meeting of nurserymen, and their families, increases in importance and value.

This year—as we initiate our seventy-fourth—we meet at San Francisco from July 17 to 21 with a full program of splendid meetings and social events arranged. Particular stress has been laid on coordinating, to a nice degree, the opportunities of hearing excellent speakers on subjects of timely importance to us in our business and of seeing at least the highlights of the fascinating city of San Francisco and its environs.

Two special trains are bringing members and their families from the east, and inasmuch as the A. A. N. now has the largest membership in its history—about 1,200—we look to the heaviest attendance of any convention we have had.

For those of you who are not members, there is no better way to see how the A. A. N. operates, and your attendance at all open sessions is urged.

It is my particular pleasure to extend to all nurserymen, whether members of the American Association of Nurserymen or not, a most cordial welcome to our 1949 convention at San Francisco.

Howard C. Taylor, President.



San Francisco Skyline Seen from the Bay through the Oakland Bay Bridge, Completed in 1936 and Four and One-half Miles Long.

velop a park which would occupy an area four and one-half miles long and nine city blocks wide, running from the heart of the city to the ocean, this property was a "white elephant" consisting of what one newspaper termed "a dreary waste of shifting sand hills where a blade of grass cannot be raised without four posts to support it and keep it from blowing away."

Today the park is a nature lover's wonderland, filled with evergreens, grassy meadows, forested hills, brooks, lakes and waterfalls. Buffalo, deer and elk roam in paddocks landscaped to appear fenceless. Foxes and other small animals are numerous, and thousands of waterfowl feed in dozens of lakes in the park.

More than 5,000 kinds of plants grow in Golden Gate park, including 109 varieties of eucalypti, among them the rare alpina from Australia; numerous varieties of acacias and more than 100 species of conifers, including the Monterey pine, the Monterey cypress, the Torrey pine and the New Zealand kauri-pine. Also prominent are the native live oaks and *Quercus ilex* from Italy. The principal shrubs are the genus *veronica* from New Zealand and the genus *escallonia* from Chile. Of the unnumbered thousands of rhododendrons growing in the park, there are more than 300 varieties, some from Tibet, India, Japan, Yunnan, Java, Siberia and Portugal, and from 300 to 400 hybrids, many of which have been developed locally. The display of these plants is unrivaled, except in Kew Gardens, in England, which boasts more varieties but fewer specimens.

Native lupines and barley would not hold the constantly moving sand dunes, but *Ammophila arenaria*, a beach grass, common to the coast of

northern Europe, proved adaptable, as did Australian tea tree, Australian acacia and a few native live oaks. These were augmented by systematic plantings of blue gums, manzanita, madrone and laurel. Later Kentucky bluegrass, Australian rye grass, fescue and *Poa annua* tied down the soil.

The man chiefly responsible for the realization of what most people considered a foolish dream in the 1880's was John McLaren, a Scottish landscape gardener, who was superintendent of the park from 1887 until his death in 1943, when he was 97 years old. In his more than half century as the park's creator, "Uncle John" planted more than a million trees. He was most proud of his redwood forest, now thirty feet tall, which he started from seeds when he was 80 years old. It is only since his death that tourists have been able to see clearly some of the fine statues which he hated and hid from sight with shrubs.

Woodward's Gardens had been the established mecca for outdoor entertainment until Golden Gate park supplanted it in 1894, when San Francisco's midwinter fair was held in the new park. Thousands of persons visited the conservatory to see "the world's largest flower," a pond lily that came to be known as *Victoria regina*. The famous Japanese Tea Garden, built for the fair, proved so popular that it was never torn down. Precipitous bamboo-railed paths lead through the 5-acre Japanese garden, over grass-covered slopes, planted with camellias, magnolias, cryptomerias and red-leaved Japanese maples. In spring the flowering quince, plum and cherry trees bloom profusely. Here and there grow over 100 fantastically gnarled bonsai, misshapen conifers, some a century or more old, but none more than three feet tall. To stunt their

growth, the branches are constantly pruned, and only a minimum of water is allowed the trees. Along one side of the pavilion, a latticed arbor is covered with fragrant white and lavender wistarias in season.

Among Golden Gate park's many points of interest are the fuchsia garden, Bowles' rhododendrons and the broad lawns of conservatory valley, where formal flower beds are in bloom the year around. The conservatory, open daily, was modeled after the Royal Conservatory at Kew Gardens, in England. In its rotunda are rare palms and semitropical plants. One room harbors a jungle-like growth of palms, vines and ferns; another a rockery, green with ferns and other plants; another a collection of about 7,000 orchids, and still another, a rotating seasonal exhibit of potted flowering plants.

The oldest scientific institution of the west, the California Academy of Sciences, is in the park's grounds. In North American Hall, popularly called the Museum of Natural History, are displayed freshly cut flowers and growing plants labeled with both their botanical and common names. The herbarium of 275,000 mounted plants has grown from 1,000 specimens saved from the fire of 1906 which swept the city.

Both rare and useful plants from many lands grow in the park's arboretum, a 40-acre plot, of which about one-fourth is under cultivation. Plants are arranged in geographical groupings, such as shrubs and trees from South Africa, the nearly extinct kauri pine in the New Zealand-Australia section, specimens of the 3,000-year-old Montezuma cypress in the Mexican area, rare varieties of rhododendrons in the Chinese, Japanese and Himalayan section, numerous plants

[Continued on page 36.]



## California Convention Hosts

Surprises are in store for the visitors to San Francisco for the convention of the American Association of Nurserymen, July 17 to 21. While known to be active in planning and preparation for months, the committees in charge of the various arrangements for the event have divulged only the outlines of what awaits the guests. Moreover, the personnel of the committees indicates the resourcefulness and executive ability which would assure a program of entertainment and business features hard to equal, and they hope to surpass those of previous national gatherings of the association.

Whether the hirsute disguise acquired by Ray Hartman, A. A. N.

May 1 and Jack McDonnell in the issue of June 1. The chairmen of the convention committees are equally prominent, as the following introductions attest.

### Clarence Perkins.

Treasurer and budget chairman for the convention is Clarence Perkins, Jackson & Perkins Co., Pleasanton. Mr. Perkins came to California in 1930 from the home office of Jackson & Perkins Co., Newark, N. Y., to establish a branch nursery at San Jose. In 1939 the nursery was moved from San Jose to Pleasanton to take advantage of a warmer, less foggy climate.

A past president of the Central

men and florists, the brothers own the nursery and greenhouses begun more than sixty years ago by their father, Hans Plath. Two years ago several of the firm's greenhouses were rebuilt, and a salesyard and office were constructed in a general remodeling program.

Since H. Plath & Sons, Inc., specializes in orchids, a profusion of these flowers is assured for decoration of the convention halls.

Herbert Plath now is serving as secretary-treasurer of the Central California chapter of the California Association of Nurserymen.

Helping Richard Plath on the decorations committee are F. O. Peters, Peters & Wilson Nursery, Millbrae, and George Smith, Leonard Coates Nurseries, Inc., San Jose.

### Herman Sandkuhle.

A variety of worth-while entertainment has been planned for A. A. N. members and their guests by Herman Sandkuhle, owner of Sunset Nursery Co., Oakland, chairman of the entertainment committee.

After returning from four years of service as a captain in the army engineer corps during World War II, Mr. Sandkuhle became president of Sunset Nursery Co., being promoted from the office of vice-president, which he had held for ten years. He now operates a retail nursery and salesyard on the site of the original firm, at Oakland, which was founded in 1906 by his father, and he also has 15,000 square feet of greenhouses and several acres of growing stock at Danville, fifteen miles from Oakland.

Mr. Sandkuhle served as president of the Central California chapter of the California Association of Nurserymen in 1947.

Also on the entertainment committee are John Edwards, John Edwards Nursery, Palo Alto; Donald Perry, Sunnyside Nursery, San Anselmo; Al Quatman, Van's Nursery, Oakland; Fred McNabb, Hallawell Seed Co., San Francisco, and Jack Schneider, Orchard Nursery & Supply, La Fayette.

### Clyde Stocking.

A fresh fruit juice bar is one of the features which Clyde Stocking, Stocking's Rose Nursery, San Jose, has planned for the 49'er room, a convention feature installed by his committee at the Fairmont hotel.

Mr. Stocking, who recently won several blue ribbons for rose gardens



Jack McDonnell and Ray Hartman.

executive committeeman and head of the Leonard Coates Nurseries, Inc., San Jose, is symbolic, or whether it is an attempt to dignify the honor of the A. A. N. in visiting the Golden Gate, is not revealed by him or his associates. Nor was it revealed whether, when the photograph was taken, he was being congratulated on the success of his newly acquired facial adornment, or whether he was acknowledging the expert direction by Jack McDonnell of the arrangements committees for the convention. The outstanding positions of these two men in the California nursery industry were described in recent issues of the American Nurseryman, Ray Hartman in the issue of

California chapter of the California Association of Nurserymen, Mr. Perkins is active in many civic affairs, in the First District Agricultural Association and in the county fair at Pleasanton.

Assisting Mr. Perkins on the budget committee are Arthur Navlet, Universal Insulation Co., Oakland, and John Snyder, Jackson & Perkins Co., Pleasanton.

### Herbert and Richard Plath.

A doubly effective combination is that of Herbert and Richard Plath, H. Plath & Sons, Inc., San Francisco, chairmen of exhibits and decorations respectively. Well known throughout the west as both nursery-





Clyde H. Stocking.

displayed at the California spring garden show, is a native Californian. He enlisted in the air corps after graduation from high school and served in France during World War I. After the war he practiced tree surgery for two years and then entered the nursery business, first in a general way and then specializing in roses.

He is a past president of both the California Association of Nurserymen and the Central California chapter of this association.

Other members of the 49'er room committee are Syd Whitehorn, Sierra Nursery & Seed Co., Fresno; Paul Von Kemp, Pacific Nurseries, Colma, and Willis Stribling, Stribling's Nurseries, Merced.

#### Leo Ihle.

Publicity chairman is Leo Ihle, owner of Birchlane Farm and Birchlane Gardens, San Rafael. Born in 1900 at Cobden, Ill., he is the son

of the late Charles A. Ihle, who operated a florists' and nursery business at Murphysboro, Ill. This firm is now being carried on by his brother, Herman.

At an early age Mr. Ihle left home and began a newspaper career; he is now business manager of the Call-Bulletin, San Francisco. In 1938 he bought a 4½-acre tract at San Rafael, and while landscaping it, he decided to open a nursery, a decision that turned a hobby into a thriving business. He specializes in tuberous begonias, pelargoniums, geraniums and fuchsias.

Mr. Ihle is a director of the California Association of Nurserymen from the Redwood Empire chapter.

#### James F. Clarke.

James F. Clarke, of W. B. Clarke & Co., San Jose, is in charge of registration for the convention. Now a junior partner in his firm, Mr. Clarke entered the business in 1925, when he joined his father, Walter B. Clarke.

The firm, started in 1921, has carried on an extensive plant breeding and plant importation program through the years and has specialized in woody ornamentals and rare varieties of lilacs, roses and flowering fruit trees.

Mr. Clarke is president of the Central California chapter of the California Association of Nurserymen.

With Mr. Clarke on the registration committee are Elmer J. Merz, executive secretary of the California Association of Nurserymen, Sacramento, and Gordon Wallace, Leonard Coates Nurseries, Inc., San Jose.

#### Mr. and Mrs. James Wilson.

It would not be hard to guess the main topic of conversation during the past few months at the home of



Clarence C. Perkins.

Mr. and Mrs. James Wilson, Peters & Wilson Nursery, Millbrae. With Mr. Wilson as transportation chairman for the convention and Mrs. Wilson in charge of the ladies' program, there were many problems to discuss.

Besides planning the interesting ladies' program which has already been announced, Mrs. Wilson is keeping secret a surprise for the ladies.

Mr. Wilson, who is working out the tours for those attending the convention, is a past president of the Central California chapter of the California Association of Nurserymen.

Serving with Mr. Wilson on the transportation committee are Bill Schmidt, W. E. Schmidt Nursery, Palo Alto; Daniel Pratt, Pratt's Nursery, Vallejo; Juel Christensen, Christensen Nursery Co., Belmont; Charles Armstrong, Capital Nursery Co., Sacramento, and Harry Rosedale, Monrovia Nursery Co., Monrovia.



Leo Ihle.



Herman Sandkuhle.



Richard Plath.

# American Association of Nurserymen

## Seventy-fourth Convention, at Fairmont Hotel, San Francisco

### COMPLETE PROGRAM SCHEDULE

#### SATURDAY, JULY 16.

- 1:00 P.M. Registration. Lobby.  
8:00 P.M. East-west jamboree. 49'er room.

#### SUNDAY, JULY 17.

- 9:00 A.M. Ornamental Growers' Association. Room 160.  
9:00 A.M. Association of Nursery Association Secretaries. Empire room.  
2:00 P.M. Wholesale Fruit Tree Growers' Association. Room 160.  
2:00 P.M. Bus trip through San Francisco and near-by points.  
8:00 P.M. A. A. N. market development and publicity committee.  
8:00 P.M. "President's Night." 49'er room.

#### MONDAY, JULY 18.

- 8:00 A.M. American Nurserymen's Protective Association. Breakfast. Empire room.  
8:00 A.M. Baby Ramblers. Breakfast. Green room.  
9:00 A.M. All-America Rose Selections, Inc. Room 162.  
9:30 A.M. A. A. N. Board of Governors. Gold room.  
Call to order, by President Howard C. Taylor.  
Address of welcome, by Frank James, president, California Association of Nurserymen.  
Report of credentials committee, by Robert Beam.  
Roll call of delegates.  
Appointment of convention committees.  
10:10 A.M. Report of committee activities, by James I. E. Ilgenfritz, vice-president.  
10:30 A.M. President's address, by Howard C. Taylor.  
10:50 A.M. Report of treasurer, by John B. Wight.  
11:15 A.M. Report of executive secretary, by Richard P. White.  
11:30 A.M. Nominations for executive committeemen.  
Nominations for officers for 1949-50.  
12:30 P.M. Keynote luncheon. Venetian room.  
Address, "Don't Be Your Age," by Rilea W. Doe, vice-president, Safeway Stores, Oakland, Calif.  
1:00 P.M. Bus trip to Fleishhacker Zoo for juniors.  
2:15 P.M. A. A. N. Board of Governors. Venetian room.  
Consideration of board agenda.  
Reports of standing committees.  
Reports of special committees.  
Statistics, by James I. E. Ilgenfritz.  
Economics, by John W. Kelly.  
Market development and publicity, by Charles M. Boardman.

#### MONDAY, JULY 18—Cont.

- 4:00 P.M. Introduction of exhibitors.  
4:30 P.M. Entertainment in 49'er room and "Grub Gulch." Trade exhibits. Terrace room.  
8:00 P.M. "California Night." 49'er room.

#### TUESDAY, JULY 19.

- 8:00 A.M. Retail Nurserymen's Association of the United States. Breakfast. Green room.  
9:00 A.M. National Association of Plant Patent Owners. Garden room.  
2:00 P.M. and  
11:30 A.M. Ladies' leave for luncheon and entertainment. Claremont hotel, Berkeley.  
5:00 P.M. Cocktails. 49'er room.  
7:00 P.M. Past presidents' banquet. Gold room.

#### WEDNESDAY, JULY 20.

- 8:00 A.M. National Mail Order Nurserymen's Association. Breakfast. Empire room.  
9:30 A.M. A. A. N. Board of Governors. Gold room.  
Continuation of agenda.  
11:00 A.M. Norman S. Coleman award, by Wayne Fenis.  
11:30 A.M. Report on the national arboretum, by Lloyd C. Stark.  
11:30 A.M. Address, "Integrating the Nursery Business with Economic, Social and Political Trends," by Manchester Boddy, publisher, Los Angeles Daily News.  
1:30 P.M. Leave for boat trip on the bay aboard the S. S. Sierra Nevada.  
5:00 P.M. Cocktails. 49'er room.  
7:00 P.M. "Northwest Night." 49'er room.

#### THURSDAY, JULY 21.

- 9:30 A.M. A. A. N. Board of Governors. Gold room.  
Continuation of agenda.  
11:00 A.M. Address by Harry E. Bunker, credit manager, H. C. Capwells Department Store, Oakland, Calif.  
2:00 P.M. A. A. N. Board of Governors. Gold room.  
2:15 P.M. Address, "Fun in Gardening," by Robert Sacks.  
2:30 P.M. Completion of board agenda.  
Report on 1950 A. A. N. diamond jubilee, by J. H. Burton.  
Report of necrology committee, by F. R. Kilner.  
Election of executive committeemen and officers.  
Remarks by J. Awdry Armstrong, past president.

## National Landscape Nurserymen's Association

#### SUNDAY, JULY 17.

- 2:00 P.M. Bus trip to Golden Gate park, arboretum, landscaped gardens and estates on peninsula.  
5:30 P.M. Cocktail hour.  
8:00 P.M. Colored motion pictures of early California history.

#### MONDAY, JULY 18.

- 9:30 A.M. Executive Committee. Room 170.

#### TUESDAY, JULY 19.

- 9:30 A.M. President's address, by George Siebenthaler, Siebenthaler Co., Dayton, O. Red room.  
9:45 A.M. Report of secretary-treasurer, by Harold E. Hunziker, M. J. Hunziker & Sons, Niles, Mich., by Laurence Holmes, Hartland, Wis.  
10:00 A.M. Address, "California, Here We Are," by John E. Picketts, editor, California Farmer, San Francisco and Los Angeles.  
10:30 A.M. Panel discussion, "Modern West Coast Landscaping," by Prof. H. L. Vaughan, head of department of landscape design, University of California, Berkeley, moderator; Ned S. Rucker, designer of California spring garden show, Oakland, and representative of Thomas Church & Assoc., San Francisco.

#### TUESDAY, JULY 19—Cont.

- 11:45 A.M. Appointment of committees.  
1:45 P.M. Address, "Trees of the World," by Prof. Howard E. McMinn, author and botanist, Mills College, Oakland, Calif.  
2:30 P.M. Address, "Plant Materials for California Gardens," by Albert Wilson, radio commentator and garden consultant, Menlo Park.  
3:00 P.M. Report of educational committee, Homer K. Dodge, chairman, Landscape Service Co., Framingham, Mass.  
3:30 P.M. Symposium on "Civic and Industrial Landscaping;" moderator, Ray D. Hartman, Leonard Coates Nurseries, Inc., San Jose; Bailey Justice, landscape contractor, Berkeley; Herbert Huettig, Huettig & Schromm, Palo Alto, and Max Leonard, agricultural commissioner, San Mateo county, Redwood City.  
4:15 P.M. Reports of auditing and nominating committees. Election of officers.

# Maple Leaf Patterns

By F. C. Galle and E. E. Nank

The maples are a popular group of plants furnishing many large shrubs and trees for landscape use.

The maples are commonly recognized by their opposite leaves; these are usually palmately lobed, but some are simple and others compound. The winged fruits, or samaras, are common on all maples, and many are colorful and attractive, as on *Acer rubrum* and *A. ginnala*. The flowers are generally small, and usually a tree bears only one sex. The bloom also is attractive on some species, such as *A. rubrum*, *A. platanoides*, *A. saccharum* and *A. ginnala*. It is impossible to think of the fall season without being reminded of the attractive yellow and red foliage colors of many plants of this popular genus of trees.

The terms soft and hard maples are often used and refer to the brit-

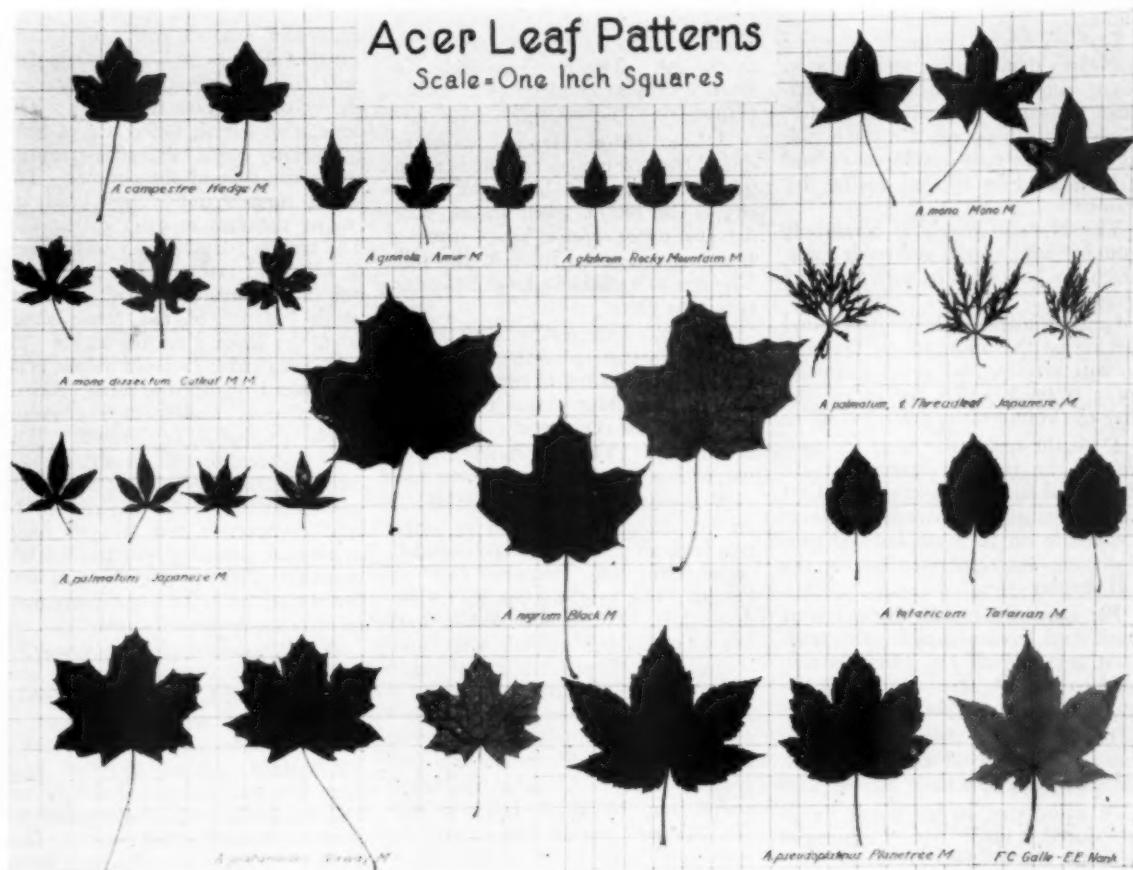
tleness of the wood and branches. *A. saccharinum*, the silver maple; *A. negundo*, box elder, and *A. rubrum*, the red maple, are usually considered soft maples; the others, such as sugar and Norway maples, are customarily described by the term hard maples.

The maples are generally not particular as to soil, although a rich, well drained soil is to be preferred. Some species, such as *A. campestre* and *A. negundo*, withstand dry soil conditions; others, such as *A. rubrum* and *A. saccharinum*, prefer moist situations.

Propagation of maples is generally by seeds, which must be handled carefully, as they tend to dry out and lose their vitality. The early-ripened seeds of some species can be sown as soon as ripe, and they will germinate and grow the same

season. Seeds maturing late in the season are best stored in a cool place of a fairly high humidity and then stratified in sand and peat or peat alone at a temperature of 35 to 50 degrees Fahrenheit for eighty to 120 days before sowing in the spring. The many varieties, clones and rare species can be budded during the summer on the same or similar species. The varieties and clones of Japanese maple and others are often veneer-grafted and handled in grafting cases during the winter. The stock is usually of the same species and is grown in pots before grafting. Softwood cuttings of the shrubby and tree form plants are not too practical, because of the low percentage of rooting. *A. negundo*, however, is often grown from hardwood cuttings.

The maples, in spite of their wide



Acer Leaf Patterns.

*A. campestre*  
*A. mono dissectum*  
*A. palmatum*

*A. ginnala*  
*A. platanoides*

*A. glabrum*  
*A. nigrum*  
*A. pseudoplatanus*

*A. mono*  
*A. palmatum dissectum*  
*A. tataricum*



use, are not free of insects and diseases, and following is a brief discussion of the commonest troubles.

Verticillium wilt has caused the death of more maples during the past ten years than any other disease. In general, the disease is not epidemic in nature but usually appears only in isolated areas. The Norway and sugar maples appear to be most commonly affected, although the red, Japanese, silver and sycamore maples are also susceptible. Recovery from mild cases of wilt has resulted in some cases following pruning and fertilizing; however, there is no control for severe infections, and such affected trees should be destroyed as quickly and completely as possible.

Leaf spot, anthracnose, tar spot and several other leaf spots are associated especially with red, silver and sugar maples. All diseased leaves should be collected and burned in the fall, since most of the causal organisms overwinter on the fallen leaves. Copper fungicides are also effective, if the first spray is applied as the leaves are developing and followed up as necessary during the summer.

Leaf scorch is common on some maples in dry seasons, appearing on plants suffering from lack of sufficient moisture. Application of fertilizers high in potash is recommended to increase root development, and water should be applied during dry seasons.

The Norway maple is commonly troubled with a large yellowish aphid, which can be controlled with a contact spray.

Cottony maple scale is often found sucking on the underside of branches on soft maples, and again a contact spray is used, being applied at the time the young scales are crawling.

Dormant sprays are used for control of the terrapin scales that are also found sucking on branches. One word of caution: Dormant oil sprays are unsafe on hard maples and generally are not recommended for the soft maples.

For a more complete discussion of insect and disease troubles the reader is referred to Dr. Pirone's new edition of "Maintenance of Shade and Ornamental Trees."

The following discussion follows the arrangement of the species on the chart and not their size or use:

*A. campestre*, hedge maple, is an introduced, small to medium-size tree, forming a formal, rounded, low-branched crown and growing to a height of thirty feet or more. The dark green, rounded, lobed leaves turn yellow late in the autumn. It

is difficult to grow grass beneath the tree because of the dense shade from the foliage. The hedge maple is satisfactory in dry sandy soils and is good as a small, rounded street tree, specimen, screen or large hedge.

*A. ginnala*, Amur maple, is an interesting, introduced, large shrub or small tree, with a dense bushy habit of growth. The 3-lobed leaves, with the terminal lobe longer than the others, are dark green in color, turning to a good red color in early autumn. The attractive, fragrant yellow flowers in May are followed by conspicuous red winged fruits in midsummer. The Amur maple is very hardy and will tolerate shade and normal soil conditions. Plants work well as specimens, in masses in borders or in groups and are good when used against dark green backgrounds to show off the fruit and fall foliage. The plants also can be used as a hedge and fit well in naturalistic plantings.

*A. glabrum*, Rocky mountain maple, is a large native shrub or small tree, reaching twenty-five feet in height. The dark, lustrous green, lobed leaves are thin in texture, pale white beneath and turn bright yellow in the fall. The tree is useful as a small specimen plant or as a border plant.

*A. mono*, Mono maple, is an introduced tree, forming a rounded crown up to fifty feet in height at maturity. The bright green leaves, with five to seven entire lobes, turn a blotched red-green color in the fall. The tree is useful as a large hedge or specimen plant.

*A. mono dissectum*, cutleaf Mono maple, is a variety of the preceding, with leaves divided beyond the middle into long oblong lobes, the middle lobe being usually slightly contracted at the base. The tree has the same use in landscape as the species.

*A. palmatum*, Japanese maple, is an introduced large shrub or small tree with an open, irregular, rounded crown, reaching twenty feet in height. The bright green leaves are divided to beyond the middle into five to nine lobes and are sometimes compound. There are many cultivated forms, varying in leaf color and lobing. The clone *Ashibeni* commonly found in nurseries has deeply cut red foliage and a good horizontal growth habit. *A. palmatum atropurpureum*, bloodleaf Japanese maple, has dark purple foliage, and *A. palmatum sanguineum*, scarlet Japanese maple, has light purplish-red foliage.

*A. palmatum dissectum*, thread-leaf Japanese maple, and *A. palm-*

*atum ornatum*, spiderleaf Japanese maple, have deeply divided or pinatifid, lobed leaves, and the latter has red foliage. Both of these plants are slower-growing than the species and have an exotic horizontal habit of growth.

Large specimen plants of the Japanese maple are rather difficult to transplant and recover slowly. Many are susceptible to leaf scorch when in full sun, especially in warm climates; so partial shade and rich, well drained soil are advisable. The plants have an exotic and formal appearance and should be used with caution as a specimen or as an accent point in the border.

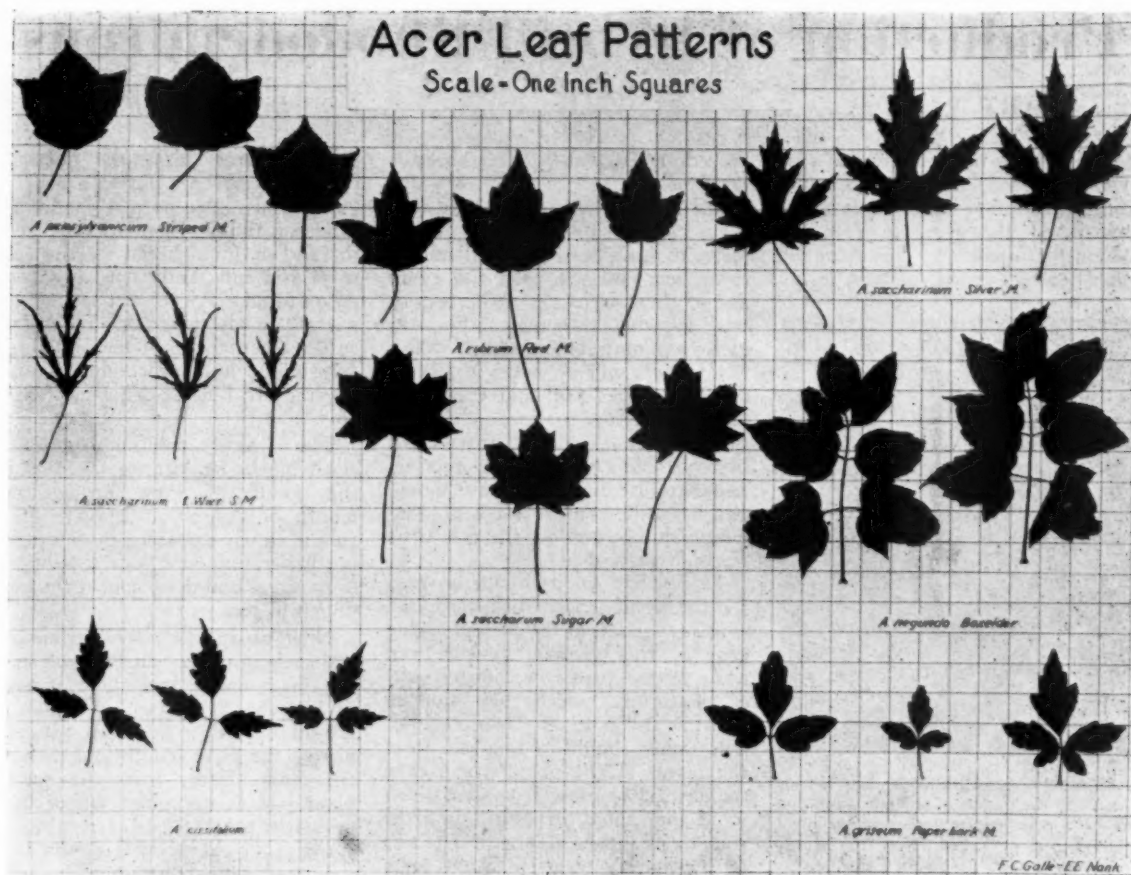
Often the Japanese maple is confused by the trade and the public with *A. japonicum*, full-moon maple, which has 7 to 11-lobed leaves that are silky hairy when young and pubescent petioles, while the petioles and leaves of the Japanese maple, *A. palmatum*, are glabrous or smooth. The full-moon maple and its many varieties and clones have the same general use in landscaping as the Japanese maple.

*A. nigrum*, black maple, is a native broad, rounded tree with ascending spreading branches, less compact than the sugar maple and reaching eighty to 100 feet in height. The large, dull green, lobed leaves have a drooping habit. Stipules are present at the base of the petioles. The leaves turn a dull yellow and are among the first to drop in the fall. The tree is adapted to a wide range of soils and makes a fair lawn tree, but it is difficult to grow grass beneath because of the dense shade from the large plentiful leaves.

*A. tataricum*, Tatarian maple, is an introduced shrub or small, round-headed tree, similar to the Amur maple in habit of growth. The bright green, broad, ovate, irregularly serrated leaves are occasionally lobed and turn yellow to red in the fall. Attractive red winged fruits appear in drooping clusters in late summer. This is a useful plant, with interesting fruit, for a specimen, mass or informal hedge or screen.

*A. platanoides*, Norway maple, is an introduced dense, spreading tree, usually round-headed and occasionally reaching seventy-five feet or more in height. The stout branchlets have large reddish terminal buds with few bud scales, and this species and the hedge maple have milky sap in young branches and petioles. The bright green, wide, 5-lobed leaves turn an attractive yellow in the fall. Showy yellowish flowers are borne in large upright clusters in early spring before the leaves and are followed





*A. pennsylvanicum*  
*A. saccharinum wieri*  
*A. cissifolium*

Acer Leaf Patterns.  
*A. rubrum*  
*A. saccharum*

*A. saccharinum*  
*A. negundo*  
*A. griseum*

by persistent winged fruits in late summer. The tree withstands city conditions better than most maples and is a useful tree for wide streets. However, it is susceptible to leaf scorch in dry areas. It is valuable also as a specimen tree because of its dense regular habits, but it is difficult to grow grass beneath, and so a ground cover is generally used under this tree.

*A. platanoides schwedleri*, Schwedler Norway maple, is a tree similar to the species, with young foliage a deep purplish-red turning to a dull dark green in the summer and followed by a dark purplish-red fall foliage.

A new clone, Crimson King Norway maple, is said to have a red foliage color all season, but from first observations and reports it is not much better than Schwedler Norway maple.

*A. platanoides globosum*, globe Norway maple, is a dense, formal, round-headed tree.

*A. platanoides ascendens*, upright Norway maple, is a good, narrow,

pyramidal tree with large, dark green leaves.

*A. pseudoplatanus*, plane-tree maple, is an introduced wide-spreading tree with a round crown, growing to seventy-five feet in height. Its large, rough, dull green leaves are whitish beneath and persist late in the fall with little color change. The attractive pendulous flowers are yellowish-green and are borne with the leaves in the spring and followed by persistent fruits in midsummer. This tree was more widely used several years ago, but is less reliable than the Norway maple as a street tree. A soil retentive of moisture is necessary to prevent leaf scorch, and it is difficult to grow grass beneath. It is reported, along with the Norway maple, to be able to withstand seashore conditions.

*A. pennsylvanicum*, striped maple, is a native small tree, usually reaching forty feet at maturity. The large, bright green, 3-lobed leaves are rusty pubescent when young and turn a clear yellow in the fall. The smooth, green branches, conspicuously striped with longitudinal white lines, are at-

tractive in the winter. The striped maple is best adapted to moist rich soils and can be used in naturalistic woodland plantings or as a small shrubby specimen tree.

*A. rubrum*, red maple, is a native tree of moist sites, with an informal upright-spreading habit of growth, reaching 100 feet in height. The shiny, dark green leaves are lobed less than halfway to the midrib, the sinus being V-shaped; are whitish beneath, and turn red and yellow in the fall. Conspicuous scarlet flowers appear early in the spring before the leaves and are followed by attractive red winged fruits. The red maple is far superior to the silver maple, but still has brittle wood. The tree is adapted to moist soils, but also is found growing successfully in drier sites and is sometimes used as a street tree.

*A. rubrum columnare*, upright red maple, is an upright-growing tree, somewhat broader and less formal than the sentry maple. Its hardiness and soil requirements conform to those of the species.

[Continued on page 84.]

# Production of Hybrid Rhododendrons

## PART VI

By James S. Wells

Many claims of being able to root hybrid rhododendrons successfully from stem cuttings have been made by growers in the past. In fact, an extremely interesting brochure is published by the state of New Jersey



A young plant of *Rhododendron roseum elegans* in the middle of summer after having been removed from the mother plant and set out in a bed. Note the sturdy development of the individual plant.

dealing with this very subject.<sup>1</sup> With the advent of various types of root hormones, this operation has developed from its previous position of pure experiment to one of practical possibility.

It is well known that many complex factors enter into the apparently simple procedure of taking a cutting and inducing it to root. The condition of the growths on the parent plant, the degree of ripeness of the wood (which in turn depends on the weather), the method of taking the cuttings, where should the cutting be trimmed, and should a small section of 2-year-old wood be retained, hormone treatments and rooting media, all these and many more questions have to be considered when a cutting is taken. This sounds like an extremely complicated procedure, which indeed it is, but by correlating information available from many experiments, and by adapting these results to our particular conditions, we have been able to eliminate many of the headaches and bring the whole

procedure to one of comparative simpleness.

But it must be stressed here that if success is to follow from your efforts to propagate rhododendrons from stem cuttings, each and every one of these factors must be considered and the optimum condition in each case must be provided; otherwise results will be poor. It follows that it requires skill and experience of a high order to line up the various factors in order to provide the best possible conditions for rooting, and therefore the keen grower should not be disheartened if his first attempts do not produce the results he might have wished.

First, what wood should be used for cutting material? Cuttings should consist of shoots of the current spring growth, this growth having been made by the plants immediately after flowering, which has stopped growing and is slightly hardened off. The shoots should be removed from the plants at the point where they commenced to grow from last year's wood and should, if possible, be from four to six inches in length. The size of the cutting seems to be of some importance. We have noticed that cuttings which were made from medium-size growths—i.e., not too strong and vigorous—root much more readily than do the more husky type, and even if the shoots of the medium caliper are somewhat long, then these, if shortened to approximately six inches, will root more readily than the somewhat shorter, thick-stemmed kind. Another point of interest, although of not vital importance, is the fact that cuttings which are taken from plants growing in the shade, or possibly from the shady underside of large specimen plants, root more readily than do those taken from the top of the plant. The difference is not great, but is quite clearly marked. The question of avoiding shoots with flower buds does not arise, as those are not set until much later in the season.

Next, when should the cuttings be taken? This is a most critical point, and one upon which much thought and care must be expended, for the rhododendron, in this respect at least, is most exact in its requirements. If the condition of the wood is not just right, if the cuttings are just that fraction too soft, then they will not succeed. Unfortunately, it is not possible to make any arbitrary recommendation, for climatic and geo-

graphic factors make the question purely a local one. But as a general guide, and under normal conditions of season and weather, any time after the end of June should see the cuttings in a sufficiently hardened condition to take. A cool wet spring will necessitate delaying the taking of cuttings perhaps until the middle of July, while hot dry conditions may suggest late June as being most suitable.

The value of a continuous series of small blocks of cuttings taken from the middle of June through the month of August at 2-week intervals is clearly apparent in determining under just what local conditions of hardness and development the cuttings will best root.

Now as to the actual trimming and making of the cutting, you may say this is simple, and so it is if done in just the right way. We aim, if possible, to select shoots of approximately the right length and then to cut these cleanly from the parent plant just at the point where they grow out of the bud early in the spring. No old wood is retained on the base, but should the shoot be too long, then an inch or so can best be removed cleanly from the base to bring the cutting to approximately six inches in length. This does little or no harm on the cuttings of medi-



Wounding the Cutting.

um or light caliper, but we have found that on the strong stout growths the removal of this bottom inch or so greatly slows down the speed of rooting.

Next follows one of the most im-

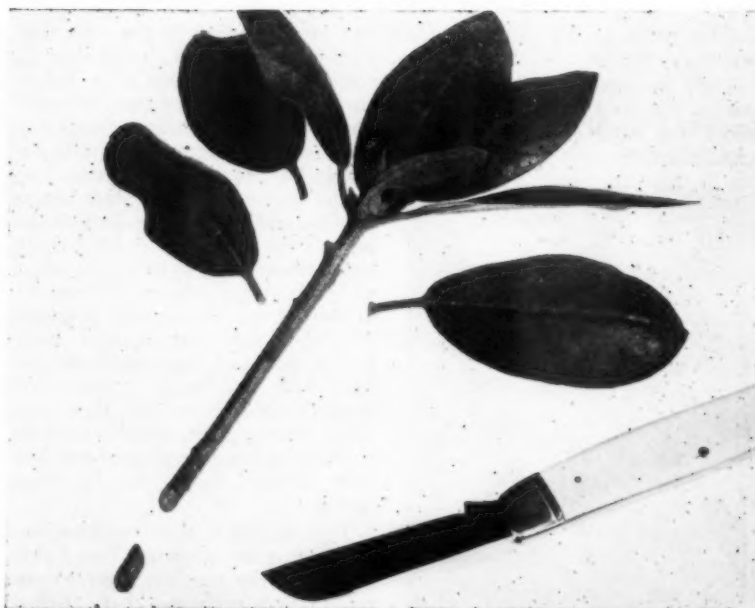
<sup>1</sup>Bulletin 666, February, 1940, "Rhododendrons from Cuttings," by G. G. Nearing and Charles H. Connors, of New Jersey Agricultural Experiment Station, New Brunswick, N. J.

portant operations of the many which have to be done. After the removal of any lower leaves which may be growing from the stem, the base of the cutting should be wounded. This wound is made by carefully drawing the tip of a sharp knife down the stem of the cutting to make a shallow incision through the outer layers of the bark for a distance of one to one and one-half inches up from the base.<sup>2</sup>

Care must be taken not to cut too deeply, for the cut should not touch the center core of hardwood. When this has been done—and with a little practice it will be surprising just how quickly this small operation can be carried out—the cuttings should be lightly sprayed and then dipped into No. 3 hormone powder. The cuttings are then immediately placed in the propagating bench in a mixture of half peat and half sharp sand, with a good bottom temperature of between 70 and 75 degrees. Here a point of particular importance should be noted. The cuttings must not be inserted deep into the rooting medium. If three inches of the stem are inserted, the remaining three inches should be allowed to rise above the rooting medium, thus keeping the leaves at the top of the cutting well clear of the mixture. We have found that if the cuttings are inserted more deeply and the leaves allowed to rest on the sand and peat before they are rooted, rotting in the leaves may destroy many otherwise excellent plants.

A recent development in the use of the hormone powders is the addition of fifty per cent of the Du Pont fungicide Tersan, which is added to control any tendency to rot which may appear at the base of the cuttings before rooting has taken place. Preliminary tests made in 1947 indicated that this powder would be of real value in the propagation of many difficult plants, including rhododendrons, and we have therefore treated our total production of 20,000 rhododendron cuttings this year with this type of hormone powder, with excellent results. The powders are now available commercially under the name of Hormo-Root A, B and C.

Usually eight to ten weeks are required to root the cuttings successfully, but after the somewhat slow formation of a pad of callus you will be astonished at the rapidity with which the plants develop a heavy ball of roots. Just as soon as they are developed enough to remove, lift the cuttings and at once pot them, using the standard potting mixture. The cuttings are immediately returned to the well heated green-



Trimmed Cutting. Shows Leaves Which Are Removed and Also the Cut at Base.

houses, where they are kept close, warm and moist to encourage the development of a good root system into the pots. It is a matter of vital importance strongly to establish the rooted cuttings in the pots as rapidly as possible, for successful overwintering largely depends upon the vigor of the new root system. Within a matter of a few days this development should be seen, and after two or three weeks the plants can be slowly hardened off and finally plunged into coldframes for the winter.

Our first batch was plunged in a deep frame in a bed of peat, this completely covering the pots. Our second batch was plunged in a similar manner in an ordinary sash frame in our open frame yard. Both lots were covered with reed mats, but this was all the protection we were able to give. During the depth of the winter, I inspected all the plants and found them without exception frozen solid, and so they remained for well over six weeks, with temperatures close to zero for much of the time. As the weather broke, we did not rush to remove the mats, but gave just a little air and that was all. Light was excluded with the exception only of the small opening for air. It took the plants nearly two weeks slowly to thaw out, and during the whole of this time we kept them covered with mats, thus excluding all strong light. We believe that this procedure was largely responsible for the fine stand which came through the winter. No difference could be noticed between the batch kept in

the deep frames and plants plunged in the ordinary type at ground level.

As the weather opens up in the spring, the rooted cuttings can be treated in exactly the same manner as the grafted stock, being first hardened off after the first spring growth and finally planted out into open beds in May. From this point onward, their development should be in every way comparable with that of first-class grafted stock.

#### Leaf Bud Cuttings.

Associated with the propagation of rhododendrons by stem cuttings is the comparatively recent development introduced by Dr. Henry T. Skinner, of the Morris Arboretum, at Philadelphia, of propagation by leaf bud cuttings. Dr. Skinner has published some interesting papers dealing with this method of propagation<sup>3</sup> and to anyone who may be interested, I should strongly suggest

<sup>2</sup> "Jaarboek Vereniging 'De Proeftuin.' Te Boskoop," by Dr. E. F. Jacobi. Book for each year 1941 through 1947, making a total of seven booklets.

<sup>3</sup> "Rooting Response of Azaleas and Other Ericaceous Plants to Auxin Treatments," by Henry T. Skinner, Cornell University, Ithaca, N. Y. (Reprinted from proceedings of the American Society for Horticultural Science, 1937.)

"Factors Affecting Shoot Growth and Flower Bud Formation in Rhododendrons and Azaleas," by Henry T. Skinner, Cornell University, Ithaca, N. Y. (Reprinted from proceedings of the American Society for Horticultural Science, Vol. 37, 1939.)

"Further Observations on the Propagation of Rhododendrons and Azaleas by Stem and Leaf-Bud Cuttings," by Henry T. Skinner, Cornell University, Ithaca,



that he write to Dr. Skinner for further information.

Briefly the operation is much the same as that which I have just described for stem cuttings, for the same limitations as to time for taking



A mallet cutting and an apex cutting, showing treatment with hormones.

the cuttings apply in this case also. The cutting is, however, quite different in form. It consists of one clean undamaged leaf removed with a portion of the stem of the current season's growth, together with one bud in the axil of the leaf. A terminal bud, taken from the apex of the young shoot, together with one strong leaf is equally satisfactory. It will be immediately apparent that it is not feasible to wound such a cutting as this, and, indeed, such a treatment is not necessary, for the amount of open tissue resulting from the removal of the leaf bud cutting is in itself a most severe wound. The base of the cutting, including the bud, should be dipped into C Hormo-Root powder, and the cutting immediately inserted in the peat-sand rooting medium, in a bench with suitable bottom heat. Each cutting should be so inserted that the blade of the leaf stands erect into the air and does not touch any adjacent cutting. This last point gives us a good method of determining when the cutting material is in fit condition to take, for if the stem and petiole of the leaf are too soft, it will be impossible to insert the cuttings in the erect position.

If all goes well, these cuttings will

N. Y. (Reprinted from proceedings of the American Society for Horticultural Science, Vol. 37, 1939.)

"Some Suggestions on the Propagation of Rhododendrons and Azaleas by Cuttings," by Henry T. Skinner, Cornell University.

root in approximately the same time as stem cuttings and should then be potted on in the same way. Subsequent treatment, however, is somewhat different. To insure the plants' overwintering successfully, it is desirable to break the dormant bud at the base of the leaf into active growth, and in order to do this the plants have to be kept in a relatively high temperature, to induce this bud to break. Temperatures of from 75 to 80 degrees are usually required. The plant will first establish itself in the pot, and then suddenly the basal buds will begin to thrust up through the soil, and you then have a fine young plant, which can with every confidence be planted out into open ground beds the following spring.

This, briefly, is the procedure, but in practice we have not found that it is quite the simple answer to our propagating problems that, at first sight, it would seem to be. We have rooted Dr. Dresselhuys, Mrs. C. S. Sargent and, of course, roseum elegans, this last quite successfully, but, as things stand at the moment, I do not believe the method is a satisfactory one for the commercial propagation of large quantities of hybrid rhododendrons. However, this should not deter the keen grower from experimenting on his own, for it is only by such continued effort that our sum total of knowledge is increased.

[The End.]

## TWO NEW SHAGBARKS.

Information on two new shagbark hickories has been released by Clarence A. Reed, collaborator, United States plant industry station, Beltsville, Md. The Lenhart shagbark was first reported in the fall of 1948 by Richard Wright, of Erie, Pa., to whose attention it had been called by his secretary, daughter of the owner of the parent tree. Mr. Wright was so impressed by the nuts' thinness of shell, ease of extraction and reasonable fullness of kernel and by the prolificacy of the parent tree that he felt it should be given publicity. Accordingly, he wrote to Washington, giving the address of the owner and other pertinent information.

The owner of the tree is E. L. Lenhart, a merchant at Listonburg, Pa., approximately eighty miles southeast of Pittsburgh. It was suggested to Mr. Lenhart that he make an entry of the nuts at the Pennsylvania state farm show, held at Harrisburg in January. He entered the competition

and won first place among the shagbark seedlings.

Mr. Lenhart has offered full cooperation with anyone who desires scions if he will send instructions as to how and when they should be cut. Mr. Lenhart also will furnish material for packing, but postage should accompany requests.

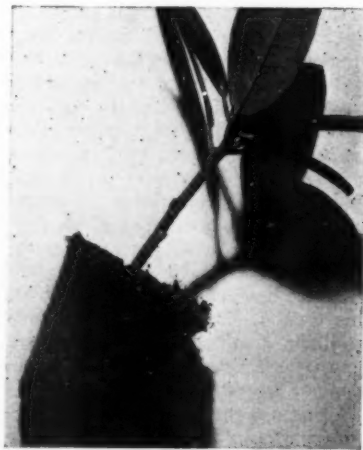
Freezing temperatures, which occurred June 1, killed the flowers of the Lenhart trees.

The Seas shagbark is similar to the Lenhart shagbark, although certain of the nuts have been filled slightly better. Like the Lenhart shagbark, it has a record of having borne two bushels in a season. The nuts are about the same size as those of the Lenhart tree but are a little less sharply angled. The shell is about equally thick, and the cleavage much the same. The nut has been known for several years, but apparently has not been propagated.

The trees are located about four miles east of Orrville, a few miles northeast of Wooster, home of the Ohio state agricultural experiment station. They are named after D. E. Seas, president of the National Bank of Orrville, from whom scions may be obtained in the same way as from Mr. Lenhart.

## SAVINGS LARGER.

One reason for a decline in sales by stores in many lines of business is the increase in savings by the Ameri-



A rooted cutting potted on and developing well into the pot. This plant will be overwintered in a deep frame.

can public, even while income has been lowered. Deposits of the nation's 530 mutual savings banks increased \$54,000,000 during April of this year, compared with a gain of \$44,000,000 during April, 1948.



## Mississippi Convention at Biloxi

The seventh annual convention of the Mississippi Florists' and Nurserymen's Association, held June 19 to 21, at the beautiful Buena Vista hotel located on the shores of the Gulf of Mexico, at Biloxi, attracted a large attendance which was treated to well planned and informative sessions. These included schools for retail florists and a practical growers clinic which discussed problems of culture and offered definite recommendations for their solution. Hints that the convention would be a success were manifested by a large turnout for the first business meeting, an activity which is usually not so well attended at many conventions.

Officers elected for the ensuing year were announced at the banquet, as follows: A. P. Miller, Columbus, president; John Harkins, Jackson, vice-president florists' division; Mrs. William Rush, Jackson, vice-president nurserymen's division, and F. S. Batson, Mississippi State College, reappointed secretary-treasurer. Members of the new executive committee are Frank Sinclair, Meridian; W. W. Broome, Jr., Natchez, and Harold Whitley, Jackson.

The convention opened Sunday afternoon with registration, which was followed by a delicious sea food buffet supper, prepared by the hotel. The business meeting began Monday morning with an invocation by Rev. Thomas A. Carruth, Biloxi, and in the absence of Mayor G. B. Cousins, the members were officially welcomed to Biloxi by William Cabaniss, Jackson, president of the association. F. S. Batson reported on the success of last year's convention at Vicksburg and announced the balance of the association's funds at the present time.

The following committees were appointed by President Cabaniss: Election committee—Frank Langley, Jackson; Mrs. Broome, Vicksburg; E. R. Murphy, Newton; resolutions committee—Frank Sinclair, Meridian; Harold Whitley, Jackson; nominating committee—John Stemme, Hattiesburg; Houston Bass, Lumberton, and Bill Adams, Jr., Gulfport.

### Opportunities in the South.

A. F. DeWerth, associate professor in charge of floriculture, department of landscape art, Texas A. and M. College, addressed convention members on the subject, "Opportunities in the Field of Ornamentals in the South." Professor DeWerth told members that the south was rapidly

expanding both in industry and in agriculture. He particularly stressed that marketing and production channels were wide open in the south and that there is a definite need to interest the younger people of the south in the nursery and florists' industry. He stated that production in the south depended upon research, together with better selling techniques, and that nurserymen and florists must sell not to select groups, but to all people who wish to buy plants and cut flowers.

Success is not acquired by chance, and customers today are not satisfied with yesterday's selling methods. A positive program of action in regard to new selling techniques must be adopted by the south.

According to population surveys conducted recently, Professor DeWerth said figures showed that migration was continuing from the farms to the cities and that the population was gradually shifting to the south. He mentioned that this migration to the south will continue from all other areas in the country, according to the surveys. Since the population is tending to increase in cities, there will be an increase in ornamental plant selling opportunities, according to Professor DeWerth. It was found that there was a thirty per cent increase in the number of firms handling ornamentals in the south and only an eight per cent increase of such firms in the country

as a whole. The gross income for the south, however, was only thirty-six per cent, while increase in the country as a whole, was sixty-five per cent. This discrepancy was explained by the poorer quality of stock sold in the south as compared to that sold in the rest of the country. Professor DeWerth assured his audience that there is no danger of overproduction in the south and gave figures showing that Alabama, Mississippi, Georgia and Texas could increase production by \$22,000,000 and still meet only a southern demand. He stated that approximately one-third of 1 cent of each customer's dollar is spent on nursery and florists' products in the United States. Opportunities mentioned by Professor DeWerth for increasing the amount of money spent by the consumer, were to increase production, concentrate on production of plants that are adapted to the south, develop new methods of utilization of the climate in growing plants, give closer cooperation with state colleges and universities in experimental work, assure careful training of your own personnel and increase the knowledge of everyone, particularly the consumer. Better cooperation between florists, nurserymen and flower growers and concentration upon plants that are more easily grown by individuals were other suggestions offered by this speaker as additional

[Continued on page 102.]



New officers and executive committee members of the Mississippi Florists' and Nurserymen's Association.

# Reports on Spring Landscape Business

Reports on spring business from retail and landscape firms throughout the country, supplementing those in the preceding issue, continue to indicate a greater volume of business than was experienced last year, but with buyers exercising more care in choosing material and more caution in spending.

Although the season began late in the midwest, demand remained steady. Considerable increases in cash-and-carry business were reported in some areas, and decreases were reported in others. Planting orders were heavy.

In the east severe heat and drought during June cut short the season and prevented planting. The winter was mild, however, and the only winter damage occurred during a cold spell late in March. In other sections of the country, winter damage was exceptionally low.

The nurserymen continued to be optimistic about next year's business and predicted little change in prices.

## Sales Volume Remains Stable.

Little change in the volume of sales this year is reported by R. R. Williams, Puget Sound Nursery, Tacoma, Wash., who writes:

"There is little difference between our volume of sales this year and that of last year, except for a slight cut in volume caused by two months of freezing weather which delayed sales. There was comparatively little damage to our stock by freezing, and what damage there was has served to prevent us from buying the same material again.

"Customer sales resistance is increasing, with a tendency toward more cautious buying and smaller sales. This trend can be offset only by an increase in the number of customers."

## Damage to Young Plants.

Some kinds of stock could not survive the severe winter in Washington, according to John B. Strander, Strander Evergreen Nurseries, Seattle, Wash., who reports:

"The winter was severe, with our minimum temperature being about 8 degrees Fahrenheit. Our only damage was as follows: *Daphne odora*, severely burned; *Euonymus japonicus*, young plants killed to the ground; *Choisya ternata*, slightly burned, and *podocarpus*, young plants killed outright. Neighboring nurseries, which had temperatures as low as zero degrees, reported that

all of the afore-mentioned varieties were killed almost outright and that there were severe losses of *aucubas* and *camellias*. Older plants of all varieties seemed harder than younger ones. Although we do not grow many perennials, reports indicate a similar pattern of damage to them.

"Business this spring was good, with a strong demand for permanent woody plants of effective size. The *camellia* mania seems to be subsiding, but a similar mania for other species is arising rapidly. We have noticed that the average homeowner showed a greater awareness of plants this year than in previous years. There was also a slightly greater demand for fruit and shade trees and a smaller demand for conifers, except for dwarf varieties.

"There will be drastic changes made in the varieties of plants grown during the next few years, in my opinion, and I believe that business will continue to be good next year."

## Complete Best Year.

The best year in the history of Marshall Nurseries, Arlington, Neb., is reported by Vernon Marshall, who writes:

"After a discussion of business at our recent annual meeting, we find that we have just completed what is probably the best year we have ever had. Our total volume of sales was the highest in our history, and we had a good profit, which was unexpected.

"Our spring season opened a little late, and it was April 1 before we could get into the fields and do any digging of evergreens. However, the entire months of April and May were ideal for completing the volume of work, packing our orders and doing our spring planting.

"Labor was more plentiful and of much better quality this year than it has been for several years. So, while we had made some increases in wage rates on January 1, our total labor cost for the year's business was little higher than it had been previously.

"We were able to maintain good prices at retail and found collections good. In fact, we were able to collect approximately twenty-five per cent of our sales volume in advance with the orders, and this was a great help in taking care of expenses.

"Many of our salesmen are on the road booking next year's business, and while they are reporting some

slight sales resistance, the volume is satisfactory, and unless a serious recession should occur before the end of the year, we can see no reason why we should not have a satisfactory volume of sales next year.

"We have talked to other nurserymen in this section and find that, on the whole, they are enjoying good business conditions and are fairly optimistic about the future."

## Record Sales in Colorado.

Despite extremely cold weather which damaged some kinds of stock and a continuing unstable labor situation, Scott Wilmore, proprietor of W. W. Wilmore Nurseries, Denver, Colo., reports a most satisfactory season for his firm, with a record number of sales, thanks to a long selling season. He writes:

"I do not believe we ever went through a more hectic sales season than we did this spring. Our season opened early, approximately March 5 to 8, and perfect weather prevailed until mid-April, which is about the time we usually get into full swing. A few intermittent storms came in on occasion, but we lost virtually no time because of bad weather. As a result, we never had an opportunity to catch our breath until the season was actually over, approximately June 1. Of course, there was considerable curtailment in the last two weeks in May, compared to midseason business, mostly because of the limiting of the items available that could be moved in their advanced condition. As a result, we did the best year's business, so far as merchandise moved at least, that we have done in the history of the business.

"It is a little early yet to tell just how much this business has increased our profits, compared to the amount of business done, since we have been more or less a war casualty and have not been able to keep up our stock in the nursery as we would like. This has been largely caused by the labor situation dating back to the war period. Further, I think we all know the conditions under which we operate today, relative to labor, and it has been a question in my mind for some time past whether a good many businesses today are not working for the people we employ, rather than the employees working for the owner.

"However, we did move a large volume of stock, and I have every reason to believe that the profits

[Continued on page 112.]

# Why Make Gardening Look Hard?

By Cy Donia

Advertising has always interested me in a speculative sort of way. I am not a student of advertising nor am I a large buyer of advertising space, but for a long time I have observed the effects of advertising on myself and my family. The results of these impacts have been more or less consciously cataloged in my mind, enabling me to express a few ideas.

Being a nurseryman, I am naturally interested in the advertisements of the industry and therefore observe them most critically. One of my pet peeves is the sort of illustrations used in nursery advertisements in the daily papers. Here are a few examples:

A man carrying trees or shrubs, supposedly to some spot in the yard where he will eventually plant them. Or the illustration may be of a man (sometimes a woman) pushing a wheelbarrow loaded with plants or garden tools. Perhaps they don't possess a wheelbarrow; so they shoulder their spade, hoe and rake and march bravely off to the front.

Oftentimes the job ahead is not merely suggested, but is illustrated by showing the head of the house spading up the back yard preparatory to planting the something that lies on the ground near by and that looks like a cross between last year's Christmas tree and a feather duster.

As you may have guessed from these subtle suggestions, the main theme of these illustrations is work spelled with capital letters. Now I have always believed that the primary purpose of advertising is to create a desire for the product advertised. What can the product do for me; what results may I expect; how will it satisfy some of my wants?



In order to learn how other industries go about this job, I examined the advertisements of many other products, some of which compete sharply with nursery stock for the consumer's dollar.

A car heater ad shows a woman and a little girl sitting in a warm car. Illustrated in full color is a deliciously tempting cake advertising flour. Richly furnished rooms with gay floor coverings set forth the charms of a certain brand of rugs. A housewife all dressed up ready to go out has plenty of time because of her new automatic washing machine. The beautiful girl proudly displays a glorious head of hair made so by the shampoo that has already done its work. The comfortable-looking interior of a house in winter is due to the insulation inside its walls, and in summer it looks invitingly cool because of its immaculate white paint.

In these ads you do not see a woman washing clothes, a girl shampooing her hair, a mechanic installing a car heater, a homeowner laying a rug or painting his house. There isn't the slightest suggestion of work; all the emphasis is on results—the kind of results we all want.

Why shouldn't nursery advertising follow the same pattern? Depict a woman cutting flowers in her rose garden—or just standing there drinking in its beauty. Or a small boy picking fruit from the grape arbor in the back yard—or the head of the house resting in the shade of a magnificent tree reading a book or just snoozing. Lead the public to visualize the pleasures that result from the use of nursery products. Advertise in such a way as to create a desire, not to arouse distaste.

I believe that most ornamental nursery stock is bought by women or as a result of women's influence. Comparatively few men are interested in gardening, but men enjoy pleasant surroundings and like to picture their womenfolk in such an environment. If the appeal in nursery ads is directed to women, the results are likely to be more gratifying.

As far as newspaper advertising is concerned, the nurserymen are not entirely to blame for the wrong emphasis. Most nurserymen depend upon the mat services offered by local newspapers. The newspapers, in turn, are served by the companies that specialize in supplying illustrations for

all sorts of businesses. These companies apparently have given little thought to the nursery business because most of the obnoxious illustrations referred to at the beginning of this article originate with them.

Until the mat service companies can be induced to offer better illustrations, the nurseryman has no choice but to supply his own. This means he will have to employ an artist and give him specific instructions for what is wanted. The designing of better mats for nursery products might be a worth-while project for the market development and publicity committee of the American Association of Nurserymen.

## COLUMBUS ROSE FESTIVAL.

Outdoor displays, including approximately 3,000 transplanted rosebushes, at the "Festival of Roses," held June 10 to 12 at City Hall, Columbus, O., were arranged through the cooperation of the Columbus Landscape Association, the Columbus Rose Society and the Columbus Allied Florists' Association. The festival was sponsored by the latter group.

Among the features of the 3-day event were the crowning of a rose queen and an actual rose wedding, sponsored by the Columbus Allied Florists' Association. Five hundred Joanna Hill and Charm roses were used for the wedding decorations, and the background designs by the Columbus Landscape Association. The roses were donated by Roses, Inc.

In the inside displays an estimated 10,000 to 15,000 roses were arranged to show uses of roses in the home.





# Third Texas Short Course

By C. G. Milne

With the temperature hovering in the high 90's, the third postwar Texas Association of Nurserymen short course was officially opened at 1:30 p. m., June 22, at the A. and M. College of Texas, College Station. Registration was slow, but at the close of the day it totaled ninety.

Prof. F. R. Brison, department of horticulture, chairman of the college committee, made the welcoming speech and introduced the speakers for the first afternoon session.

## Propagation Problems.

In describing special methods for handling hardwood cuttings in the southwest, Prof. A. F. DeWerth, head of the department of landscape art, stated that the problems in the southwest are dependent upon understanding the fundamental environmental conditions encountered in this and any other area, namely: Humidity, temperature and proper rooting medium. Age and type of cutting are also important factors; however, success and results in propagation depend entirely upon proper management and trained personnel. Humidity around the cuttings should be kept high by means of a layer of cheesecloth placed directly on the cuttings. This cheesecloth should be kept moist until evening by means of a syringing nozzle rather than by the thumb nozzle method which keeps the medium too wet and does not necessarily raise the humidity.

For most hardwood and softwood cuttings in the southwest, a propagating medium of vermiculite or of sand and vermiculite in equal proportions gives better results than sand alone or sand and peat mixtures. Knowledge of the proper moisture conditions for vermiculite must be gained by experience.

Professor DeWerth presented figures on the rooting percentages of five local shrubs which had been propagated at A. and M. College of Texas the past winter. The cuttings were rooted in three environments; namely, a propagating house, under lath and in the open field. Successful rooting was encountered only in the greenhouse where proper control of environmental conditions was obtained, thus substantiating Professor DeWerth's earlier remarks. The cuttings were treated with various concentrations and types of growth-promoting substances, and

the explanation of the results was given in another talk.

The next speaker was E. W. Schultz, graduate student in the department of horticulture, who spoke briefly of the problems in seed germination and the results of recent tests with difficult seeds. Mr. Schultz recognized that nurserymen are interested in the propagation of nursery stock by seeds because of the ease and number of plants readily obtained by this method; however, most of the ornamental seeds in Texas need treatment prior to germination. The reasons for this prior treatment are the restrictive seed coat, immature embryo and necessary rest period. Any one or, in some cases, a combination of these must be overcome.

Nurserymen are also faced with the problem of either planting the seeds immediately or storing them until such time as they can be planted. Mr. Schultz outlined the procedure for proper storage, advising that clean seeds be sealed in jars and kept at a constant temperature of 36 to 41 degrees Fahrenheit until spring planting. Stratification storage problems of live oak, common persimmon, Mexican persimmon, Chinese tallow tree, jujube, Mexican plum and mimosa were presented.

To break or remove a restrictive seed coat from seeds, treatment in concentrated sulphuric acid for between five minutes and two hours is recommended over the old practice of immersion in boiling water for a short duration of time. In the boiling water treatment, it is difficult to ascertain whether the seed has been permanently injured due to coagulation of protoplasm when the treatment is for fifteen seconds. Seeds soaked in concentrated sulphuric acid must be thoroughly cleaned before planting.

The use of growth-promoting substances in the propagation of ornamental plants was discussed by C. G. Milne, department of landscape art. He cautioned nurserymen that the use of synthetic plant hormones is not an excuse for the disregard of good propagation practices and not to expect miracles from any of the commercial or prepared growth substances.

During the past ten years many workers have investigated a great number of growth-promoting substances, but their results are conflicting and confusing as to the proper

concentration for each compound, and it is apparent that each species of plant may require a different concentration for optimum results. Recent tests at the A. and M. College of Texas indicate that indolebutyric acid concentration of seventy ppm is best for hardwood cuttings when soaked twenty-four hours in solution, and a concentration of indolebutyric acid at 200 ppm is best for softwood cuttings when soaked one hour in concentrated solution. Directions for making up solutions were given, and the nurserymen were told that liquid dip was not difficult to do and that better results would be obtained from liquid dip than from the prepared commercial dusts because of the varying concentration in the latter.

Mr. Milne also discussed the possible use of other growth-promoting substances in nursery practice such as 2,4-D and sprout inhibitors for rose stock.

H. C. Blackhurst, department of horticulture, outlined the best uses of growth-promoting substances for fruits and vegetables in Texas and discussed particularly the effects of such substances on the prevention of fruit drop, delayed blossoming and blossom thinning of citrus and other commercial fruits.

## Plant Physiology and Pathology.

Dr. A. A. Dunlap, head of the department of plant physiology and pathology, opened the second day's discussions with an illustrated lecture on camellia dieback and canker, a disease which is serious in the Gulf area of Texas. The disease is caused by anthracnose fungus, which can attack leaves and stems of the camellias and results in defoliation and tip dieback of the young shoots. Treatment for this disease can be of two types, prevention or cleanup. All nurserymen were cautioned to prevent the spread of this disease as much as possible in existing infected areas. Prevention can be accomplished by spraying at least twice a year with a mixture of an insoluble copper compound in water with a spreader sticker. The bark or stems of camellias should be sprayed particularly well. Control on infected plants is accomplished as follows: All deadwood should be pruned, and the cut areas should be protected with weatherproof disinfectant. Large lesions on the bark should be cleaned out and disinfected with a four per

[Continued on page 88.]

# Tours Feature South Carolina Meeting

By Margaret F. Higdon, Secretary

The second annual convention of the South Carolina Nurserymen's Association was held June 17 and 18 at Charleston with headquarters at the famous Fort Sumter hotel overlooking Charleston harbor. The meeting was a great success in every way; there were nearly three times as many registrants as at the first convention, and many new members, both active and associate, were signed up.

Upon the report of C. A. Shadow, Columbia, chairman of the nominating committee, officers were nominated and elected as follows: President, Steve Stephenson, Stephenson's Nursery, Irmo; vice-president, John Brailsford, Shady Grove Plantation & Nursery, Orangeburg, and secretary-treasurer, Mrs. Margaret F. Higdon, Old Fort Nursery, Charleston. Executive committee members are the retiring president, John T. Bregger, Peach Ridge Farms, Clemson, and E. L. Smith, Trenton.

## Session at Gardens.

After registration was completed Friday morning, the group assembled in a motorcade of twenty-four cars which was escorted by city and county police to famed Middleton Gardens, America's oldest landscaped garden. There the first session took place, with the address of welcome given by F. J. Aichele, Jr., Carolina Floral Nursery, Charleston, who expressed delight at the large attendance, far greater than expected, and in behalf of the local nurserymen, offered assistance in every way possible to out-of-town guests during their stay. In response, Steve Stephenson, vice-president, gave sincere thanks for the grand reception given by the local nurserymen and beamed at the already apparent success of the convention.

A letter was read by Mrs. Margaret F. Higdon, convention chairman, from Mr. and Mrs. Dana L. B. Osgood, of Pierates Cruze Garden, near Charleston, offering an invitation to the group to visit their garden during the nurserymen's stay at Charleston.

With lovely Middleton Gardens for a setting, Robert E. Marvin, Wildwood Nurseries, Walterboro, gave a fitting and educational talk, the title of which was "Landscape Architecture—A Fine Art." He pointed out the various trends in landscaping, from the Victorian pat-

tern to the modern, both formal and informal.

Following the landscape talk, a panel assembled and answered questions from the floor on plant problems of nurserymen. Panel members were Prof. Fred Galle, University of Tennessee, Knoxville; John B. Wight, Wight Nurseries, Cairo, Ga.; Mrs. Margaret Higdon, Old Fort Nursery, Charleston; J. A. Berly, department of entomology, Clemson College, Clemson; Prof. A. M. Musser, Clemson College, and Dr. W.

the latter in South Carolina. Much discussion was heard on the subject, and it was decided that a resolution be submitted at the business meeting as to the proper precautions to be taken for the control of this disease.

## Banquet.

The evening session was heralded in by a colorful banquet, attended by all the registrants and many guests. The menu of sea food was welcome substance for appetites whetted by the afternoon tours.

Mrs. Margaret Higdon, toastmistress, introduced Mrs. Arthur B. Schirmer, president of the Garden Club of Charleston, who made some complimentary remarks on how the nurserymen help the garden clubs. Mrs. John Bennett, east low country regional director of the South Carolina State Garden Club, spoke briefly on garden club work. A letter was read from Mrs. Thad A. Munzenmaier, president of the Council of Garden Clubs of Charleston, who was unavoidably absent. She expressed her appreciation to all nurserymen for their fine help and constructive advice.

The speaker of the evening was Senator Oliver T. Wallace, Charleston, who gave an entertaining and arousing discourse entitled "South Carolina, Inc." After the conclusion of Mr. Wallace's address, Mrs. Higdon introduced all distinguished guests and out-of-state visitors. The social session after the banquet was highlighted by the showing of colored slides by Professor Galle and C. N. Hastie, Jr.

## Addresses and Business.

The Saturday morning session began at 9 a. m. with an address by John T. Bregger, president, on "Hardy Fruits for the Home Garden." In a talk on "The Use and Selection of New Ornamentals," Professor Galle pointed out methods of propagation, past and present, and concluded his talk by answering questions. The subject "Prolonged Dormancy in Plants" was timely because of the extremely warm winter this year and was discussed by Prof. A. M. Musser. Soil problems were well discussed by Dr. W. C. Barnes, who spoke challengingly on treatment of soils and illustrated his convictions with slides. John B. Wight, treasurer of the American Association of Nurserymen and president of



John T. Bregger.

Carroll Barnes, South Carolina agricultural experiment station, Charleston.

The group was taken on a tour of the gardens under the guidance of J. Campbell Ashley, manager of Middleton Gardens Nursery. He pointed out the lovely butterfly lakes built by slave labor, a camellia plant reputed to be one of the first imported into America about 100 years ago and, also, the well known Middleton oak, which reigns majestically over the landscape.

Leaving Middleton, the motorcade traveled to world-famous Magnolia Gardens, where C. Norwood Hastie, Jr., owner, welcomed the group with refreshments, and tinkling glasses challenged the heat of the afternoon. While some of the group relaxed on benches and others reclined on the lawn, Mr. Hastie gave a detailed and informative account of the damage and correction of azalea petal blight and also the camellia petal blight. He suggested steps to prevent spread of

the Georgia Nurserymen's Association, climaxed the program of speeches with an excellent paper on salesmanship entitled "Now You Have to Sell It."

The business meeting was called to order by President Bregger, and the first discussion was on the time and place for the 1950 meeting. The matter was then placed in the hands of the executive committee for further consideration and final decision. Mr. Bregger next brought up the fact that the association has no gavel, and he called for suggestions from the floor. E. W. Rochester, Liberty, volunteered to secure some wood from an apple tree planted by the South Carolina statesman, John C. Calhoun, for the gavel.

R. B. Taylor made a motion, which was passed, that the secretary's railroad fare be paid by the association to all conventions of the American Association of Nurserymen, this policy to become effective with the meeting at Washington, D. C., in 1950.

Mr. Hastie, chairman of a committee to draw up a resolution to be sent to the South Carolina state crop pest commission regarding the control of petal blight, presented the following resolution: "We, the South Carolina Nurserymen's Association, respectfully request the South Carolina crop pest commission to take whatever measures it deems necessary to prevent the admission and spread of the camellia petal blight disease (*Schroetia camelliae*) in South Carolina." This resolution was adopted and turned over to the secretary.

A motion was unanimously carried that an amendment be added to the constitution that the past president of the association be an ex officio member of the executive committee.

Following these business meetings, the group was hustled off in a motorcade to Carolina Floral Nursery, where F. J. Aichele, Sr., and F. J. Aichele, Jr. and their families were hosts to the crowd at a buffet luncheon, which was served on the terrace of their home overlooking the grounds planted with hundreds of camellias and azaleas. After lunch, Mr. Aichele led the group on a tour of his greenhouses and nursery.

Upon return to the city and to climax the afternoon's entertainment, the group enjoyed a boat trip around the harbor and dry docks, stopping for a while at historical Fort Sumter located in the center of the harbor.

#### A. A. N. Chapter Meeting.

Following the business meeting, a meeting of the South Carolina chapter of the American Association of

Nurserymen was held, with R. B. Taylor, Greer, president, presiding. The following officers were elected: President, R. B. Taylor, Greer; vice-president, John T. Bregger, Clemson, and secretary-treasurer, Mrs. Margaret F. Higdon, Charleston. Mr. Bregger was elected as delegate to the A. A. N. convention.

Plans were discussed for making a gavel to be presented to the A. A. N. at its Washington meeting, and the president appointed the following committee to make arrangements: Mrs. Margaret Higdon, chairman; C. N. Hastie, Jr., and F. J. Aichele, Jr.

#### R. B. TAYLOR.

R. B. Taylor, recently reelected president of the South Carolina chapter of the American Association of Nurserymen and last year vice-president of the South Carolina Nursery-



R. B. Taylor.

men's Association, which he was instrumental in organizing in September, 1947, operates the Greer Nursery, at Greer, S. C.

Born in 1897 on a farm near Greer, the son of J. P. Taylor, who planted the first commercial peach orchard and shipped the first peaches from upper South Carolina, Mr. Taylor attended school at Greer and worked in the orchard part time.

After serving in World War I Mr. Taylor started the Taylor Nursery & Fruit Farm in 1919, growing apple, peach and pear trees for commercial plantings. A few years later he planted his first shrubbery liners. In 1926 the Taylor Bros. Nursery, Inc., was organized, of which Mr. Taylor was

field foreman. However, this nursery was discontinued in 1932, and while Mr. Taylor served with the United States Department of Agriculture soil conservation service, Mrs. Taylor operated the Greer Nursery at Greer, which she had started in 1934. Mr. Taylor helped her part time, and in 1942 he left the soil conservation service and took over the nursery.

The Greer Nursery became a member of the American Association of Nurserymen in 1940 and was the first member in South Carolina. Mr. Taylor has served as membership chairman for the state, working to increase the A. A. N. membership in South Carolina, which now totals twenty firms. Before becoming president of the South Carolina A. A. N. chapter, Mr. Taylor served as its vice-president.

#### SOUTHWESTERN NOTES.

The Deer Landscape Co., Neodesha, Kan., was low bidder on two roadside improvement projects in Neosho county, with a bid of \$5,110. The firm also was low bidder on a job in Wilson county, with a bid of \$4,824.50.

The Mitchell Nursery, 213 University drive, Fort Worth, Tex., was washed out of business in the flood of May 17. It will take all summer to repair the damage and prepare for fall business.

Will J. Baker, Baker Floral Co., Fort Worth, also suffered a severe loss in the same flood. Damage included the loss of five cars, five buildings and the main store with all its contents.

Eugene E. Euwer, Goodland, Kan., has sold the Western Plains Landscape & Nursery, to Knudson Bros. It will be operated by them as a separate department, with Mr. Euwer as manager.

Oran Sipes has nearly completed his new florists' shop and greenhouse on U. S. 75 just north of Topeka and reports an unusually good business this spring.

Mr. and Mrs. George Skinner, J. H. Skinner & Co., Topeka, left about the middle of June for the Pacific coast where they will enjoy a month's vacation.

Elmer Romick, Topeka Evergreen Nursery, Topeka, is constructing a storage building of concrete blocks 20x60 feet; the new building will enable him to handle a more complete line of nursery stock. J. J. P.

A SMALL nursery is being started at Ordway, Colo., by Herman Stephenson.



# Insects and Diseases of the Grape

By M. B. Cummings

Before we turn to the pests of the grape, let us take a quick glance at the importance of this fruit in the economy of foods.

Grapes are grown throughout the world in much greater tonnage than are apples or any other fruit because of the demand for them as raisins and for wine, and for table and dessert use. The total production of grapes the world over is almost as large as the total for all other fruits combined. Grapes are grown extensively in European countries. Their greatest commercial value is realized in the countries noted for their wines, such as France, Italy and Spain. In many states in this country there are vineyards of more than 200 acres on a single farm, besides farms where only grapes are grown.

Most cultivated grape varieties are derived from two parental species, namely the native wild frost grape, *Vitis labruska*, of the United States, and the wine grape, *Vitis vinifera*, of Europe. The latter dates back to the Biblical times of Abraham, Isaac and Jacob. In both cases all varieties are of a single generation even though grown for a thousand years from cuttings. A new generation comes only when seeds are used for propagation, and then something new is born from hybrid seeds. But there are about twenty native species in the United States.

The grapevine can and should be popularized much beyond its present use, since it has more good points than are generally recognized. It is a hardy, easily grown plant and is productive of fruit. It bears early, lives a long time and yields abundant harvests under good care. The late-blossoming habit and consequent freedom from frosts on the flower give it a priority that is often overlooked. The products and by-products of grapes need not be listed, for they are well known.

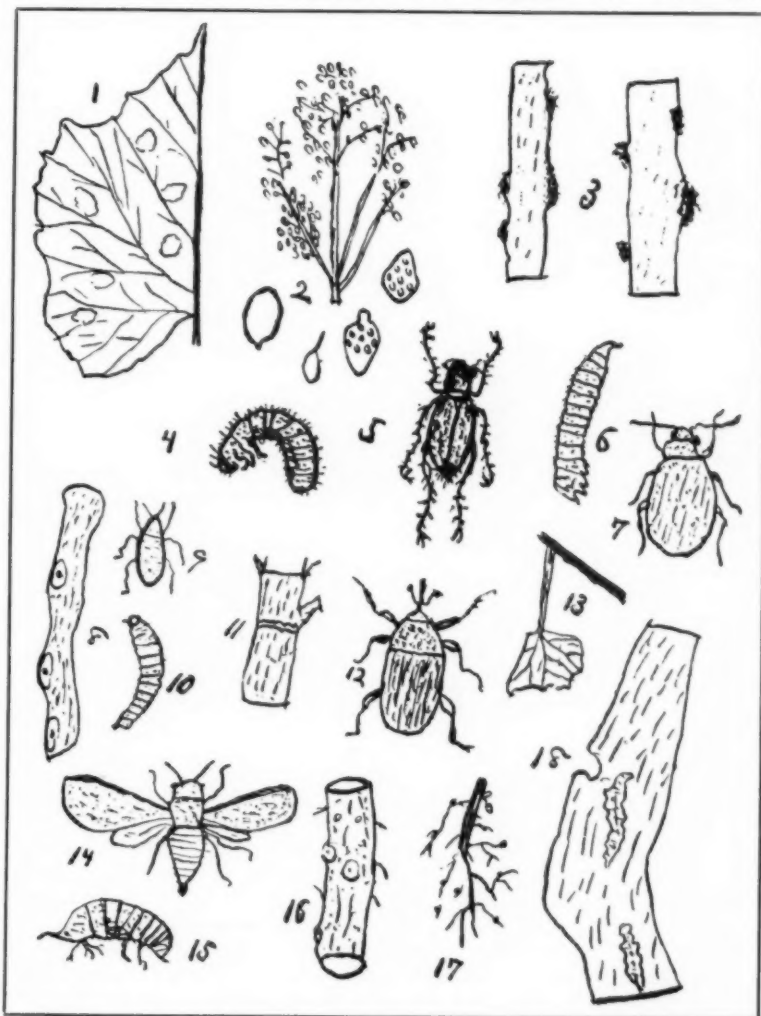
Despite these advantages of the grape as compared to other fruits, it is still a fact that it has its quota of pests, such as diseases and insects, that need attention in the nursery as well as in the vineyard and the home garden. Fortunately, the pests

in midsummer. Mildew is common on wild and cultivated grape leaves, sometimes on strawberry leaves, peonies and dahlias and frequently on bedding and border plants. But each species has its special type of mildew disease.

Mildew appears as small, white patches of fuzzy growth on leaves and stems in midsummer and later. An enlarged diagram of pest germs for summer spread and large oval fall spores that carry the fungus over to another year are illustrated

in figure 2. Toward fall the mildewed areas display small black specks, which are the spore cases in which are developed the spores that reproduce the disease and carry it over the winter on dead leaves.

Mildew is a surface fungus with most of its structure on the exterior of leaves. It occurs in white patches on the leaves, as indicated by figure 1. Minute threadlike structures functioning like roots penetrate the cell structure of the leaf and withdraw food materials for their own



Legend to diagram: 1, patches of mildew, fine fuzzy growth on leaf of grape; 2, germ of the mildew fungus on upright branches below, much enlarged to show reproduction and how the disease is spread; 3, crown gall eruption, light, then dark in color; 4, grub of the rose chafer beetle; 5, rose chafer adult; 6, worm of flea beetle; 7, adult of flea beetle; 8, damage of grape cane gall maker; 9, adult of gall maker; 10, worm of gall maker; 11, damage done by grape cane girdler, punctured cane; 12, beetle of cane girdler; 13, result of cane girdler; 14, bug of phylloxera louse that lives on roots; 15, nymphs of root louse; 16 and 17, kinds of injury to grape roots by louse, scars and knots; 18, grapevine root borer showing damage.

## Diseases of Grapes.

Mildew is a common and recurring fungus disease on grapes in the nursery and elsewhere. It is much influenced by weather, especially rain

growth. Thus mildew is a parasite, living upon others to their detriment, but for its own benefit. A parasite devitalizes its host plant by its mode of living and is a robber plant.

It is its perpetual occurrence and universal distribution that make mildew a permanent problem. One may expect it every year almost everywhere. It is certain to be worse in a wet season than in a dry one, and it is the frequency of rain rather than the total amount of rainfall that allows the disease to thrive. Mildew also affects the berries on the grape cluster, showing a white coating over the fruit.

The control of mildew is not difficult. It cannot be exterminated, but it can be kept under control. The two fundamentals are sanitation and spraying, or dusting, the plants. Sanitation means the collection and disposal of affected parts or entire plants. Diseased leaves, if not too numerous, can be gathered during the growing season or at the end of it, a practice that is easy if begun on time, but laborious if deferred until the disease is widespread. In any case, at the end of the season all diseased parts should be gathered and buried or burned. Dusting with sulphur or spraying with Bordeaux mixture at 10-day intervals, if begun in June, will restrict the disease to a few plants and to small harm. Late summer sprays, if not preceded by earlier applications, will be of little value. Spray in June and July rather than in August and September, and do not neglect the fall cleanup.

Black rot is the most destructive disease of grapes and is widespread. It affects mostly the American varieties. In some places and in some seasons this rot does more damage than all other grape diseases combined. It is most prevalent in wet seasons following much black rot in a previous summer. Vines, leaves and shoots are attacked. On the leaves the fungus causes reddish-brown circular spots with darker margins. Scattered over the spots may be found dark brown pimples, which are pustules containing spores. The spots may coalesce and form large irregular patches, which are easily noticed. Infected berries on the grape cluster first show small whitish specks, which increase in size, become black pimples and appear on the skin. In a late stage the berries become shriveled black mummies. Bordeaux sprays at intervals of ten days, beginning in mid-June, will control the black rot fungus.

The crown gall disease on trunks and even on canes is not uncommon. Gall is recognized as rough swellings

or tumorlike outgrowths on the stem or root, more often at the surface of the soil, which may be an inch or two in diameter. They are wartlike in appearance. Gall is a bacterial disease that inhabits the soil and gains entrance through injuries to the root and crown of the plant. To control crown gall on grapes one should not set out infected plants or set plants in any ground for at least three years where ground gall has been found, for the bacteria causing gall may live several years and cause the disease to occur again on new plants. It is controllable by the extermination method, which means cutting away all affected parts and burning them. Do not bury the galls.

#### Troublesome Insects.

The rose chafer, shown in figure 5, and its grub, shown in figure 4, does much damage to grapes as well as to roses and other plants. It is of a golden-yellow color, is about one-third of an inch in length and seems to be mostly all legs with claws on all of them, which enable it to cling to plants and to the back of one's neck much to the discomfort of workmen. The rose chafer beetles appear about the time the grapevines are in full bloom as well as later on, and when numerous they defoliate the vines, destroying many leaves and blossoms. The beetles are particularly injurious to small vines. The rose chafer is widely distributed and lays its eggs in the soil. The hatched worms resemble small white grubs, which feed on the roots of many plants, including those of the grape. The grubs pass the winter as worms and form pupae in the spring near the surface of the ground. The adult beetles emerge in late May and early June, thus completing the life cycle. Spraying the plants with strong mixtures of arsenate of lead sweetened with syrup makes the creatures eat ravenously and eat enough poison to cause their deaths. A ten per cent DDT mixture is also an effective spray. It is urgent that the application be made as soon as the beetles appear. Watch for them and start control before they become large and tough.

The flea beetle and its worm, illustrated in figures 6 and 7, often do much damage to grapevines, especially to the foliage. The beetles pass the winter in rubbish and in the spring feed on the grape leaves. Eggs are laid in spring under loose bark on the canes. Much feeding on the leaves skeletonizes them, unless the plants are sprayed with arsenate of lead or DDT. Two applications at 10-day intervals may be necessary.

The grape cane gall maker and its worm, shown in figures 9 and 10, may harm grapevines. The worms of the species are brown in color and have black bristles on the tubercles. DDT will suppress them, as will arsenate of lead at two pounds to fifty gallons of water put on as soon as the creatures appear in early summer.

The grape cane girdler, shown in figures 11 and 12, punctures the cane, as shown by a series of holes around the cane, so that the tip beyond the girdle portion tips over, as shown in figure 13, and wilts. Control consists of spraying with arsenate of lead in early summer and burning all affected parts containing the creatures.

The root louse, or phylloxera bug, diagramed with damage done, in figures 15, 16 and 17, does great damage to roots of European grapes, which are the wine, raisin and table varieties grown in the western part of the United States. In fact, it was the presence of this louse that deterred the culture of European grapes in early days in the United States. The root louse is a native of the United States, but it has invaded France and at one time was known there as American blight. The life history of the root louse is somewhat complicated, too much so to be related here. The injuries done are readily distinguished. On the undersides of the leaves there may be numerous small rounded and elevated galls, and the roots are scarred, often with small swellings on them, as shown in the illustrations.

Phylloxera does serious damage only to the roots of European varieties of grapes, so that the problem of control is simply to use only roots and stocks of American grapes. This insect is most formidable in California and other regions where European varieties are growing and in favored places with a climate similar to that of California.

The grapevine root borer damages the roots by boring in them, as shown in figure 18. The adult of the creature is a moth that is related to the peach tree borer. It is wasplike and is a dark lustrous brown color, having orange markings, or cross bands, on the wings. The worms, or larvae, are white caterpillars. The eggs are laid in summer on foliage of the grape and hatch in a short time. The borer is a native of the United States.

Direct control is possible. Cultivation of the land in June and July helps to suppress the creatures by destroying the pupae in the soil. The suppression of weeds and other shel-

[Concluded on page 75.]

# Viburnums of Variable Variety

By George Graves

The viburnums are a large and variable lot of plants, every one of which is interesting and probably attractive when seen growing at its best. They form a group with something to offer for use in almost any landscape planting and in almost any kind of planting location. Cutting the list down to usable garden proportions is something of a problem because, even among the species seen more or less commonly in cultivation, there are broad differences in size, habit of growth, flowering effect, fruiting display and foliage characteristics. Also, some of them thrive in moist locations whereas others inhabit very dry locations, even though all of them will do fairly well in good garden soil.

Planters who worked on a large estate scale of border plantings made much of some of the larger-growing species and in a way which is hardly possible in home grounds development of the more modest but more numerous kind known today. This does not mean that the large viburnums have no place in the present scheme of things, because in planting the areas flanking new highways in keeping with the existing landscape, the large viburnums, being for the most part native, fit in well. On the other hand, some of the viburnums, particularly some of the introduced ones, are well suited to intimate gardening because of size and aspect. In fact, these would appear much out of place along a roadside far out from town.

Whichever way they are used, it appears that for best effect, viburnums—all of them—need to grow in natural style. It is this natural style or freedom to develop without severe pruning which seems essential to the fullest display of any viburnum whatever.

Because of the very reason of limited size, along with other attractive features, perhaps the most gardenesque of the lot is the not too long cultivated fragrant viburnum, *V. carlesi*. Now that it is being propagated by seeds and cuttings rather than grafted on roots of *Viburnum lantana* or others of the more common species, this Korean plant is more frequently seen in the form of the broad and spreading but neatly habited 5-foot shrub that it can grow to be. Out of flower, it is made attractive by its rounded, grayish

leaves. Its bluish-black fruits are of no great garden value, which seems to make little difference to gardeners who are fascinated by its sizable clusters of white and highly fragrant blooms borne in May with the leaves. The presence of a single plant tucked away near a walk will be disclosed by that carrying fragrance. This, together with the fact that the fragrant viburnum became generally available not too many years ago, accounts for its use as a specimen plant. With free-growing, own-root plants, greater use of them in mixed plantings or, more rarely, in natural hedges would seem indicated.

Whatever the quantity or the landscape use, it seems apparent that this, like most other viburnums, survives planting much more readily in northern gardens if set in the spring. Also, a soil which holds an ample amount of water will insure better development and staying powers.

In recent years, a hybrid of *V. carlesi* known as *V. burkwoodii* has been offered as being superior in habit. This shiny-leaved shrub tends to be evergreen in warmer areas. Like its parent, its greatest claim to fame is in its flowers. These clustered, waxy pink blooms of gardenia-like fragrance are displayed before the leaves unfold. Also, when in bloom, it can often be smelled before it is seen.

A second species with highly fragrant blooms on bare plants in spring is aptly called *V. fragrans*. Where hardy, it can grow into a 9-foot shrub, which may often have its flower buds killed in winter. It seems never to have gained much popularity and apparently for good reasons as far as northern gardens are concerned.

These new species have come in to take the places, in some measure, of the snowballs which used to represent the viburnums of flowering value most commonly in home gardens. For years, the so-called Japanese snowball, *V. tomentosum* sterile, was popular, but the typical *V. tomentosum*, the doublefile viburnum, seems to have been retained in its place, largely because its showy, flattened flower clusters develop into red fruits which eventually turn black. This sizable shrub is, in its very framework, interesting because of the stratified aspect of its horizon-

tally reaching branches. As for the common snowball form of *V. opulus*, with its load of leaf-disfiguring plant lice, it, too, seems less important than in former years. Its place in many landscape plantings has been taken by the native cranberry-bush viburnum, *V. trilobum* (*V. americanum*). Like the European plant which it displaced, it is somewhat gaunt in appearance, but nonetheless can develop into a rounded shrub with white blooms followed by winter-persistent scarlet fruits.

Low hedges of the dwarf *V. opulus* nanum are still sometimes seen. When the soil is reasonably moist, this nonflowering, low-growing form of the European cranberry-bush viburnum is a pleasing hedge plant. However, in sandy land where drought is a regular summer feature, the life of such a planting cannot be counted upon as being too long.

A far neater and more gardenesque plant for limited space is the linden viburnum, *V. dilatatum*, which seldom reaches its potential of ten feet in most gardens or which can readily be kept down by basal removal of older stems. It is a broad-habited shrub with rounded leaves which turn red before they drop in autumn. For a combination of attractive plant and brilliant, persistent scarlet fruit display, this species has much to recommend it. The yellow-fruited *V. d. xanthocarpum* is sometimes seen.

On the basis of showiness of persistent red fruits, the 10-foot *V. wrightii* can be mentioned. However, it lacks the pleasantness of plant which characterizes *V. dilatatum*.

If one wishes to make a specimen plant of any viburnum, a likely species for the purpose is *V. sieboldii*. This Japanese shrub is vigorous in growth and builds up a large plant ten feet or more in height. Its rounded, coarsely toothed leaves are attractively shiny and hang to the plant well at the end of the season. The large open clusters of creamy-white blooms are followed in late summer by showy fruits, which in the course of ripening change from pink to blue-black. This spectacular plant is hard to group, but standing alone in a suitable place, it is a show in itself.

Although seldom seen in northern gardens except in some mild-climated seaside areas, the leatherleaf vibur-

[Continued on page 82.]



# Plant Notes Here and There

By C. W. Wood

One of the first plants that I knew of in gardens was the Florentine iris. No doubt many other gardeners of the old school can say the same thing, for the plant was long a favorite in gardens. In fact, its association with man goes back beyond the first records of gardening. That is not so surprising when we remember that it was a plant's fragrance, its medicinal value (fancied or real), or its economic qualities which attracted early horticulturists. I. florentina must have come to our shores with the early settlers, too, for it is listed in the oldest American catalogs, including that of the celebrated John Bartram.

Being an antique has in no way dimmed its appeal to modern gardeners, as I proved a few years ago by planting it beside the best modern varieties of that time, nor has it decreased its commercial value. It is true, of course, that its flowers are small when compared with some modern kinds, but its pearly iridescence and pleasing fragrance are appealing charms. Its economic value in a country of high wages and synthetic perfumes is naturally less than it would be where cheap labor prevails, such as in sections of Europe where the records tell us that as many as 20,000,000 teething beads, made of the root, were exported annually before the war. However, one does not have to stretch his imagination to see that the production of orris root could be made to fit into schedules of some plant growers.

I do not find at the moment any figures on the importation of orris root into this country, but the amount must be large, for the root is used in many products, including perfumes (especially those with a violet scent), dental preparations, sachet powders and soaps. The plant should be good property in the hands of a neighborhood grower who will take time to study its possibilities and push them.

## Some Notes on Monardas.

Although monardas are sometimes called coarse plants among gardeners, they have many good points, such as fragrant foliage, showiness in some of their flower colors and ease of culture, to recommend them to garden makers. Their aromatic foliage alone warrants the special notice of any gardener. Incidentally, the fragrance is a good selling point in the neighborhood nursery, as I have noticed on several occasions and especially once this

spring, when I watched a knowing salesman pinch off a bit of foliage as he and a customer passed each fragrant plant. I noticed, too (it was before any except the earliest bloomers were out), that the customer purchased several aromatic plants, including monarda, when she left.

If one were to judge from catalogs, he would think that most of the plants that appear in them are forms of *Monarda didyma*, although it is not clear that all are pure *didyma*, for the petioled leaves and the densely hairy calyx throats of some forms hint that they may have *M. fistulosa* blood in them. Nevertheless, they are *M. didyma* to gardeners and will probably remain so. It does open up a field of speculation for the serious student and plant breeder and could perhaps lead to other color breaks in what is a useful garden plant even now. For instance, the yellowish *M. lasiodonta* and the purple-spotted, yellowish *M. punctata* from the southwest and south, respectively, might add to the color range.

Two forms, Cambridge Scarlet and Salmon Queen, seem to be the most popular ones in nurseries at present. It is granted that both usually attract the attention of gardeners when the plants are in bloom, although, personally, I soon tire of the latter and prefer the bright rosy-scarlet of Mrs. Perry over the crimson-scarlet of Cambridge Scarlet. And one should not forget the white form, *alba*, which is a splendid plant for massing.

It often is said that monardas need much moisture for successful cultivation. This belief probably is based on the fact that *M. didyma* grows naturally along stream banks, but one finds in practice that *didyma* and its forms do well in gardens if given a soil rich in humus, preferably one containing an abundance of well-rotted manure and leaf mold and, if the situation is extremely dry, some shade. *M. fistulosa*, on the other hand, prefers dry soil, and I have found it on the driest hilltops here in northern Michigan. All types of monardas are easily propagated from cuttings.

## The Alpine House.

In response to a request from a New Jersey reader of this column, a few observations on the alpine house are set forth at this time. I have never been fortunate enough to own a house constructed on the approved lines of the alpinists, but we do use an old

sash house for the purpose, so I shall tell about it from experience and about the other from observation. Let us consider the latter first.

The first requirement in an alpine house is a means for thorough ventilation, preferably without drafts. The best one that I have seen had a row of mechanically-operated ventilators on each side of the ridge and the sides, from the staging up, and these were hinged for raising or lowering, as needed. This made it possible to regulate the more or less constant change of air needed in a house used for alpinists.

The benches should be solid, with sides three or four inches high, so they can be filled with gravel or ashes, and the pots should be either stood or plunged, preferably the latter, into this material. Standing pots of alpinists on an open bench will soon show even the novice that alternate periods of moisture and dryness will surely destroy an alpine.

The operation of an alpine house of the aforementioned kind is simplicity itself. No heat is required, of course, for the plants need the resting period which they have in their mountain home. This is accomplished indoors by withholding water in the winter, giving only enough to prevent complete desiccation. It means many sad-looking plants during the winter, which may be disconcerting to the beginner, but one will seldom make a mistake if he keeps them dry enough to be perfectly dormant. The coming of spring and its awakening influence means more moisture, although extreme care must be exercised at first to see that the plants do not receive too much water before growth becomes active. Now for a few words about our improvised alpine sash house.

It is an old sash house, used for propagating years ago. The only openings for ventilation are the sashes in the roof, which may be lowered to give a space of from one inch to two feet or more at the ridge, depending upon needs, and a door at the east end. Otherwise, it meets the requirements of the alpine house enthusiast, including low pitch. The problem of what plants to grow in a structure of that kind is not easy to solve. Beginners, with reason, should rely upon the old standbys, working up to difficult kinds as experience teaches the little tricks of successful cultivation. Incidentally, the alpine house, with



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**Iberis Purity.**

It would be a poor candytuft that would not enthrall me. Among the small ones, the alpine form of *Iberis saxatilis* is my favorite, but it seems to be hard to obtain. As a good substitute, I have heretofore accepted cutting-grown Snowflake, but now I think the new variety Purity will be my choice. If grown from cuttings, this variety should give uniform plants of 6-inch stature with flowers larger and as white or whiter than those of Snowflake, and it certainly will have a longer blooming season.

**Siberian Iris Snowy Egret.**

If you are a neighborhood grower who has found it difficult to compete with specialists in tall bearded irises because of the bewildering number of new varieties which are introduced annually, and will try a few of the newer Siberians, you may find a pleasant surprise awaiting you. A good plant to begin with would be Snowy Egret, the loveliest white that I have ever seen. Everything about it is refined, from its large (for a Siberian), snow-white flowers of exquisite form



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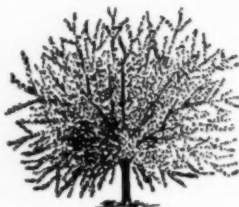
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to its graceful foliage. While you are trying new plants, you might investigate the lovely china-blue Mildred Stahlman and the rosy-red Helen Aster, both of which will open your customers' eyes to new beauty in Siberian irises.

## Penstemon Barrettae.

An eastern correspondent asks what she can do to make *Penstemon barrettae* permanent. If experience here is a basis for judgment, there is probably nothing to be done to attain that end. The plant always has been short-lived here, usually dying after the first profuse flowering, as so many of its kind do. This is a factor that one has to take into consideration when dealing with western penstemons.

The theory has been advanced that these short-lived species would be more tenacious if they were given an acid soil; this theory has not been borne out entirely in practice here. It is true that most species (I now recall no exceptions in the western species) do better in an acid medium, though many seem equally at home in one of neutral reaction. It is important, then, to give your western types an acid soil, unless you know from experience that acidity is detrimental, but it is of equal or greater importance to provide the good drainage to which they are accustomed in the wild.

Even then many kinds are more or less monocarpic, especially if allowed to mature a full crop of seeds. If flower stems are cut immediately after the blooming period, a plant will often make one or more short-stemmed rosettes of leaves at the ground level, which, if ribbed off with a heel, will root readily in sand. But one should make up his mind that many kinds are little more than monocarpic, and that is all he can make of them. That is no reason, however, that we cannot enjoy their beauty, for gardeners go to even more work to have tender annuals and biennials.

To return to *P. barrettae*, this species has beautiful blue-gray leaves and erect stems up to ten inches or so in height, carrying a short spike of lavender flowers. This makes a beautiful combination.

## Pink-root.

I recently saw a plant of pink-root that reminded me of a source of income which is usually overlooked in the neighborhood nursery. This is a native plant, not spectacular to be sure, which fills the garden role of shade, which is not always easy to fill.

*Spigelia marilandica*, one of the few members of the logania family to

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of the most neglected natives, considering its many good qualities as an ornament for difficult shady places. From tufts of dark green leaves spring numerous slender stems from one to two feet high, bearing terminal, one-sided spikes of bright red flowers with yellow throats from May to July. The plant is at home in deep woods and should have similar treatment in the garden for best results. It will, however, do well in sunshine if given moisture and a rich, loose, deep loam. Germination is slow unless seeds are planted immediately after harvest or in the following fall at the latest.

#### Ironweeds.

Many plants which are closely related in the botanists' scheme of the vegetable kingdom have little in common as far as the gardener is concerned. For instance, botanists place Stoke's aster, *Stokesia laevis*, and ironweeds in the same tribe of composites. The former has almost everything to make it a garden favorite, while the ironweeds are looked down upon by most gardeners, especially in sections where the ubiquitous meadow plant, *Vernonia noveboracensis*, is a native.

Many of us outside the ironweed's range think that the vernonias are not given their just dues. Some of us, for instance, believe that two vernonias, *V. noveboracensis* and *V. altissima*, are two of summer's best landscape plants when they are used as they should be. I believe, too, that many gardeners in the ironweed's range would be of a similar opinion if they were shown how to choose plants to accompany ironweed and where to place them. An occurrence comes to mind which bears out that observation. Several years ago a friend of mine, who is a landscape architect in Ohio, made a planting of these two ironweeds and two sunflowers, *Helianthus giganteus* and *H. decapetalus*, with some michaelmas daisies along the edge of a garden, in a moist spot belonging to one of his clients. When I saw it three or four years afterward, it was one of the loveliest perennial plantings on the estate. The owner had the common ironweed growing on the grounds, but it was considered little more than a pest until the landscape man showed him where to place it and what plants to use with it.

The common ironweed of the middle west, *V. noveboracensis*, is my favorite of the hardy kinds. It is coarse, to be sure, but showy in its pretty heads of violet-purple and noble in its stature of from five to six feet. But for loftiness the prize goes to *V. altissima*, when it is given the rich soil

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#### SAN FRANCISCO.

[Continued from page 9.]

from South Africa and medicinal plants from all over the world.

South of the arboretum is the rose garden and beyond it a fine collection of Kurume azaleas and of irises. In another section of the park, within a low-cut hedge, grow specimens of every plant named in Shakespeare's writings, and this is called, "The Garden of Shakespeare's Flowers."

Kezar stadium, where the famed east-west football games are played, the music concourse seating 20,000 persons, art museums, recreational areas and many monuments are also to be found in the park.

A. A. N. visitors are also to see the famed California redwood trees, when the bus trip July 17 takes them across Golden Gate bridge to Muir Woods National Monument, a 2,400-acre park of virgin redwoods in a mountain ravine. Many of the trees are 200 to 250 feet high and twelve to sev-

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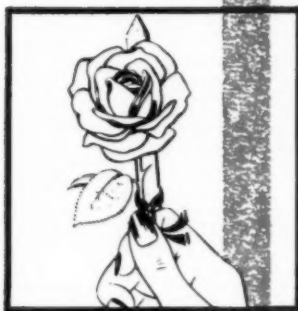
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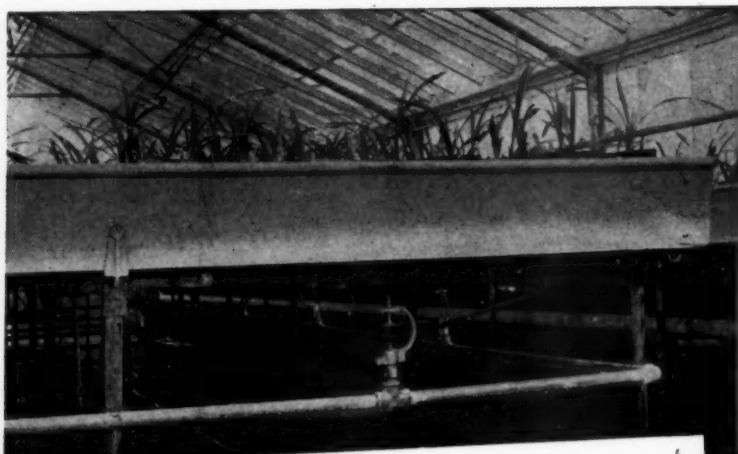
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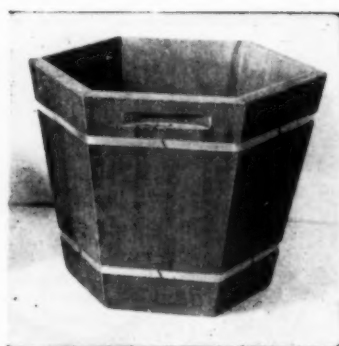
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enteen feet in diameter. Some were deeply scarred by fire 175 years ago, which resulted in fantastically abnormal growths on some trees. Sen. William Kent bought the property for \$45,000 and deeded it to the United States in 1908 as a monument to John Muir, California naturalist.

### Near the Park.

Near Golden Gate park will be seen the Cliff House, a white stucco building, terraced along the edge of cliffs overlooking the Pacific ocean. It houses a modern restaurant, and diners and visitors may look through the plate-glass windows at the seals playing on the rock below, or gaze for miles out on the Pacific ocean. The Cliff House is the third establishment of that name to occupy the site. The first, built in 1863, was damaged when a ship carrying dynamite blew up against the rocks below; the second was a rendezvous of the rich and was nearly destroyed in the fire of 1907. The present Cliff House was rebuilt and modernized in 1937.

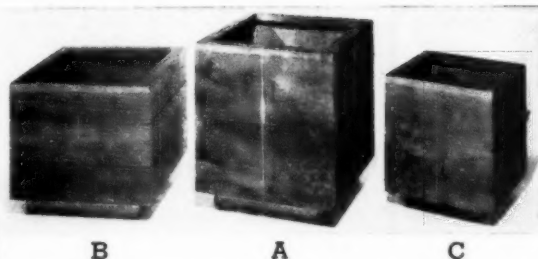
The highway passing the Cliff House runs for 3,000 feet opposite Golden Gate park, and in that area is the widest boulevard in the United States.

Junior convention guests are to have a special trip to Fleishacker Zoo on July 18. They will see in 128 landscaped acres, set in a valley encircled by wooded hills, animals of all types, many of which are separated from the public only by wide moats. The zoo was named for Herbert Fleishacker, who was president of the park commission at the time the zoo was started. The zoological gardens there are modeled after Germany's famous Hagenbeck Zoo.

### Seen on the Bay.

The boat trip, on the afternoon of July 20, will afford visitors the opportunity of a pleasant and cool ride on San Francisco bay. They will see the famous San Francisco waterfront, called the Embarcadero, where are represented almost 200 steamship companies, whose vessels, both of domestic and foreign registry, called at nearly every port of the seven seas before the war. They will see Treasure Island, a 400-acre island, literally built into the bay to house the Golden Gate International Exposition and since used by the navy as an airport.

The boat ride offers excellent views of San Francisco's skyline and of the famous bridges which connect it to Oakland and the various communities across the bay. San Franciscans have been accustomed to altering their geography to fit the city's growth. In the early days, the business section



## OUTSTANDING REDWOOD PLANT TUBS

### FINE APPEARANCE

These extremely handsome containers were designed by a noted landscape architect. They are unusually well proportioned, with their fine lines accented by the scoring. The scores can be painted or stained to match any color scheme. A kick plate adds to their beauty and convenience.

### FINE CONSTRUCTION

Made of 1-in. natural Redwood, these tubs are very sturdy. The joints are rabbeted and securely held by galvanized nails. Ample drainage holes are provided.

### SPECIALLY PRICED

Due to an exclusive arrangement we can sell these outstanding Redwood Plant Tubs for the following prices, F.O.B. San Francisco.

Type	Scoring	Dimensions	Weight	Price
A	1 Vertical, 1 Horizontal	16x16x17½ ins. high	15 lbs.	\$3.60 each
B	3 Vertical, 1 Horizontal	16x16x14½ ins. high	15 lbs.	3.60 each
C	1 Vertical, 1 Horizontal	12x12x14 ins. high	12 lbs.	2.75 each

HOPE TO SEE YOU PERSONALLY AT OUR BOOTH AT THE A. A. N. CONVENTION

## NURSERYMEN'S EXCHANGE

938 Howard Street

San Francisco 3, Calif.



WELCOME TO SAN FRANCISCO  
For the A. A. N. CONVENTION!



San Francisco is the home of Plant-Chem, the concentrated plant food that contains trace elements and plant hormones; produces amazing plant and vegetable growth. For seeding, transplanting, growing. Quick acting; no burning. You are invited to visit our offices while attending the convention.



PLANT-CHEM, INC.  
1355 Market • San Francisco

POUR IT ON - WATCH 'EM GROW

was pushed out into the tide flats along the wharves that started where the skyscrapers of Montgomery street now stand, and, in fact, many skyscrapers and much of downtown San Francisco stand on pilings driven into the bay before rock fills and dredgings created the Embarcadero. And the city is still stealing land from the bay.

A NEW nursery, Sun-Rae Gardens, Inc., has been opened on Route 11, Dayton, O.

## WOODWARDIA FERNS

3-gallon cans ..... \$1.50 each

HYDRANGEAS, assorted varieties,  
heavily budded,

3-gallon cans ..... \$1.50 each

IVY, best of the newer varieties,

2-inch pots ..... \$15.00 per 100

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Nurserymen and Florists

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### AZALEAS: KINDS AND CULTURE by H. Harold Hume

A source of practical up-to-date information. Chapters include propagating, soils, planting, culture and care, feeding, pruning, azaleas as pot plants, greenhouse culture, insects and diseases. 63 black and white illus.; 9 in full color. 200 pages. (1948). \$4.00, postpaid.

AMERICAN NURSERYMAN 343 S. Dearborn St. Chicago 4, Ill.

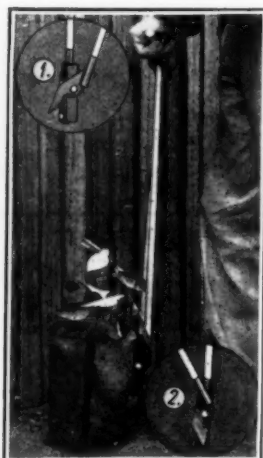




## These Twin Assistants DOUBLE YOUR SPEED Canning and Recanning

### One Stroke PUNCHES Four Holes

The Handy-Man Multiple Can Punch, used in position shown for gallons, adjusts quickly to outer positions of blades for 3 or 5-gallon cans. Cuts 4 drainage holes at one stroke of either hand or foot lever. No denting or crumpling; the blades cut cleanly, clear to the can's bottom plate. May be ordered with extra punch for center of bottom plate if desired, or without the hand lever.



### Over 500 Satisfied Users of the Redhead Can Shear

It nicks the bottom rim as it splits the can, hence definitely speeds up recanning, since the halves of the cut can may be bent clear back to release the ball intact. Its cadmium-plated handles (to resist rust) are long, to keep your hands away from danger of cuts and reduce stooping. It's durable, too.

The Redhead Can Shear is guaranteed to cut any nursery can, or your money back. Yet it is so light your saleswomen may operate it. Gardeners like it, too.

WRITE FOR COMPLETE CATALOG

*We'll see you at San Francisco*

We will be in booth T-4 to answer your questions and exchange ideas with you.

**Ayer-Line INDUSTRIES, INC., 709 Jones St., Berkeley 10, Calif.**

## KISKATOM NURSERIES

C. D. & L. C. WEISS

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## AMERICAN NURSERYMAN

### GEORGIA NURSERYMEN MEET AT JEKYLL ISLAND.

In the semitropical atmosphere of Jekyll Island, members of the Georgia State Nurserymen's Association met for their twelfth annual convention May 16 and 17.

John Wight, Wight Nurseries, Cairo, was reelected president. Under his leadership the membership of the group has more than doubled during the past year. Sam Pettyjohn, Pettyjohn Nursery, Bainbridge, was elected vice-president, and M. Aubrey Owen, Owen's Vineyard, Gay, was reelected secretary-treasurer.

Following registration at Crane House, the meeting opened at 9:30 a. m. Monday, with an invocation, some remarks of welcome by A. Newton Moye, director of Georgia state parks, Atlanta, and a response by William Monroe, Monroe Landscape & Nursery Co., Atlanta. The morning session was then devoted to a program of educational talks, including "White-fringed Beetle Control," by G. G. Rohwer, project leader, white-fringed beetle control project, Macon; "Camellia and Azalea Fertilization," by John Cope, Reliance Fertilizer Co., Savannah; "New Developments in Peaches and Small Fruits," by F. F. Cowart, Georgia agricultural experiment station, Experiment, and "Using New Plant Hormones and Chemicals for Control of Weeds and Other Plants," by Edward P. Carter, United States Department of Agriculture, Experiment.

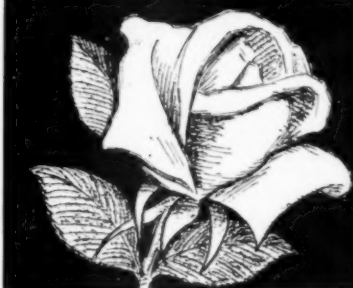
Beach parties and sight-seeing provided entertainment for the afternoon, and following the evening banquet, there was dancing.

When the meeting reconvened Tuesday morning, Mrs. Fletcher Pearson Crown, Decatur, told about "Garden Clubs and Their Activities"; Prof. Hubert Owens, head of the department of landscape architecture, University of Georgia, Athens, spoke on "Landscape Design," and Mrs. Margaret F. Higdon, Old Fort Camellia and Azalea Garden, Charleston, discussed "Camellias and Azaleas." A short business meeting and installation of new officers brought the 2-day meeting to a close.

Several members of the American Camellia Society attended the meeting to hear a discussion of the control of camellia petal blight. The Georgia State Nurserymen's Association recommended that C. A. Alden, director of the Georgia department of entomology, take whatever steps the department thinks necessary for the control of this blight.

Also present at the meeting were Charles Morse, Chattanooga, Tenn.,

# OREGON'S BEST SOURCE OF GOOD ROSES



This slogan has been true for 25 years. It is just as true today as it was in 1924 when we first started raising our high-quality roses.

We cordially invite you to visit our rose fields on your way home from San Francisco. Our roses should be in full bloom between July 25 and August 5.

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**SCAPPOOSE, OREGON**

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and James Stubbs, Atlanta, president and secretary-treasurer, respectively, of the Southern Nurserymen's Association, and Glen Harris, Mobile, immediate past president of the Alabama State Nurserymen's and Florists' Association.

### MAIL ORDER MEN MEET.

The members in the central region of the National Mail Order Nurserymen's Association met June 17 at the Four Flags hotel, Niles, Mich., in a special gathering after the close of the season. The meeting was called by John M. Elzinga, chairman of central region meetings.

Because of the volume of business to be discussed, the usual dinner was not held. Besides discussing the outlook for next spring and topics of nursery operation, the meeting attempted to formulate the ideas to be presented at the national meeting, to be held at Chicago, August 8 and 9.

**WALTER R. SCHOONMAKER**, Sandy Hook, Conn., who owns the 6-acre Newtown Landscape Service, is planning to grow general nursery stock and to specialize in unusual ground cover materials. He was formerly with Clifton Sammis, Huntington, N. Y.

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Manufacturers of

### RED CLAY FLOWER POTS

Machine-made flower pots  
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Spanish Pots and Saucers

### GLAZED FLOWER POTS AND SAUCERS

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# Nurserymen

## CUT COSTS! SAVE TIME!



## HIGH CLEARANCE TRACTOR

Nurserymen are now discovering that the Minneapolis-Moline UTC tractor possesses features that are definitely needed in the field work they are required to do in their business.

Originally designed for rugged service in cane fields even under difficult conditions, this UTC tractor is widely acclaimed for its dependable power, its operating efficiency, its sturdy construction, its economical upkeep, and now its Uni-Matic Power for operating hydraulically the working tools available for it.

Nurserymen interested in cutting operating costs appreciate especially the fact that the MM tools designed for this high-clearance tractor are useful in saving time and costs of preparing the soil for perennials, shrubs, and tree seedlings and later for cultivating growing areas. With special attachments of their own design, nurserymen are finding still another use for these UTC tractors—that is for tree digging, root trimming, and under-cutting operations.

Here are a few of the features of this MM Model UTC tractor that nurserymen appreciate:

**STURDY CONSTRUCTION:** for rugged, long-life, dependable performance.

**HIGH CLEARANCE:** built high from the ground with a 31-inch clearance.

**VISIONLINED DESIGN:** for best operating visibility on all jobs.

**SURPLUS POWER:** provided by powerful high-compression 4-cylinder engine with exclusive high-turbulence head and special combustion chamber.

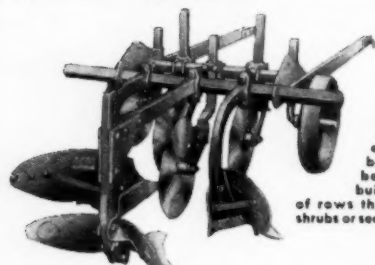
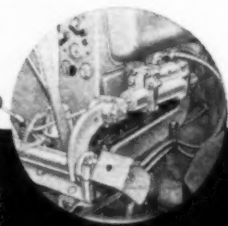
**FIVE FORWARD SPEEDS:** with a maximum road speed of 13.2 m. p. h. and a reverse speed of 1.9 m. p. h.

**UNI-MATIC POWER:** for smooth, positive, accurate lifting, lowering, and depth control of working tools.

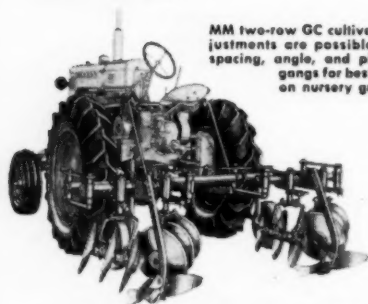
With MM Uni-Matic Power, which hydraulically lifts and lowers the working tools, depth of penetration may be accurately controlled by a conveniently located selection lever.

SEE YOUR MM DEALER, OR  
WRITE FOR COMPLETE INFORMATION

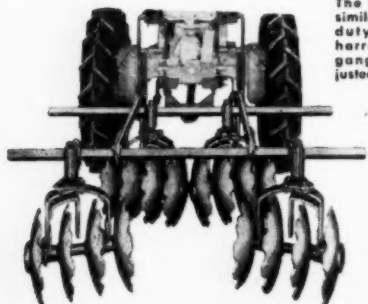
**MINNEAPOLIS-MOLINE**  
MINNEAPOLIS 1, MINNESOTA



The HC plow consists of right and left hand bottoms that may be adjusted for building the kind of rows that perennials, shrubs or seedlings thrive in.



MM two-row GC cultivator. Various adjustments are possible in setting the spacing, angle, and pitch of the disc gangs for best possible results on nursery growing beds.



The EC Chepper is similar to a heavy-duty tandem disc harrow. Four disc gangs can be adjusted separately for cutting angle and pitch desired in the preparation of seedling and shrub beds.



# Iowans Tour Gardens

By Clyde H. Heard, Secretary

The Iowa Association held its summer meeting at El Rancho Tel, Davenport, June 17 and 18. During the 2-day meeting the nurserymen toured gardens and estates at Davenport and in surrounding areas.

The local committee on arrangements consisted of Mr. and Mrs. Lloyd Platt, Platt's Landscape Nursery, Bettendorf; Mr. and Mrs. W. H. Mast, Davenport Nursery, Davenport; Neal Rohlf's, Rohlf's Landscape Nurseries, and C. R. Bechtel, Bechtel Nursery, Bettendorf. Mr. Platt, who acted as chairman, organized the tours, and local nurserymen acted as guides.

## Visit Local Homes.

Many of the residences visited had unusually well kept gardens. The abundance of roses, including hybrid teas, floribundas and climbers, bore out Davenport's title, "the City of Roses."

Much credit is due the Quad-City Men's Garden Clubs and local rose clubs, which have made their influence count enough to bring the American Rose Society meeting to Davenport in 1950.

Many of the fine homes are built on steep slopes, where the mowing of the lawns might appear to be a problem, in spite of their well kept appearance. At the smaller homes visited, the choice and arrangement of landscape materials were effective. Several varieties of taxus were in evidence and were doing well. Many of the nurserymen were much interested in the purple beeches, large magnolias and Japanese maples, which do not thrive throughout much of the state. Two unusual trimmed hedges were of mock orange and Forsythia suspensa. The latter was especially compact, and many nurserymen would have concluded that it was Amur River privet unless they had given it a close examination. At the Duck Creek golf course was an excellent rock garden with a massed planting of evergreens and specimen beeches.

During a brief visit to Platt's Nursery the group viewed the well labeled potted roses, the auger mounted on a jeep which is used for digging holes and the attractive, new sales building located near the highway. The Vander Veer rose garden, planted this spring from a design by Lloyd Platt, has been doubled in size in preparation for the American Rose

Society meeting next year. The Palmer gardens, located in a congested area, were well kept, and the roses were doing surprisingly well. Featured were several unusual pieces of statuary bought by Mr. Palmer during his travels abroad.

Among the recreational activities at the meeting was a boat trip under the suspension bridge and through the locks.

## Banquet Speakers.

Seventy-one persons attended the banquet Friday evening. After the introduction of guests, including members of the Quad-City (Davenport and Bettendorf, Ia., and Moline and Rock Island, Ill.) Men's Garden Clubs, Dr. A. A. Plagman, Davenport, gave an instructive talk on roses. He displayed charts showing planting, pruning, cutting, winter protection and pests of roses. In telling of

his experiences with different varieties, he strongly recommended the buying of A-1 plants from nurseries having good reputations, and he urged nurserymen to be careful to supply plants which were fully up to grade. Rose lovers, he said, were willing to pay for first-class plants. Uncovering roses early in the spring, as soon as buds begin to swell, and pruning them after April 10 were recommended by Dr. Plagman. He mounds his roses in late October or early November and prefers planting as early in the spring as the ground is workable.

Harry Lytle, Davenport, used color pictures to illustrate his talk, "Glimpses in Gardens." Following this talk, a visit to Dr. Plagman's garden, with its modern lighting system, concluded the activities for Friday. There the group saw almost every kind of rose which could be grown on a steep hillside.

## Tour of Gardens.

On Saturday the tour of gardens began with the Butterworth estate, Moline, Ill., where the nurserymen

*What is the secret the pine trees know  
That keeps them whispering, soft and low?  
All day long in the breezes swaying,  
What can it be they are always saying?*

—Jennie G. Clarke

## WE LIKE TO SAY — THANK YOU

to our customer-friends. Your patronage is deeply appreciated, and we sincerely hope that our service has met with your satisfaction. A six weeks' embargo, a concentrated program to relocate our nursery and greenhouses and a resulting labor scarcity really complicated matters, but with a maximum of effort and minimum of error we have seen the season through.

It's a little early to tell you much of our operations at our new nursery at Neshanic Station, N. J. Once the move is completed, however, we can assure you a greater selection of healthier stock in greater quantities at attractive prices. We will be within delivery or pickup distance of many more present and potential customers, and express rates will be in most cases as much as \$1.00 per 100 lbs. less.

We suggest that you keep in touch with us.

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Propagators of quality lining-out stock since 1921.



## BALLED and BURLAPPED EVERGREENS

Our sources of B&B Evergreens are among the best. Let us quote your requirements for Fall 1949—Spring 1950 Season.

Over 20 years of service to the Wholesale Nursery Trade.

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"A friendly, efficient service."

# CHOICE LINERS FOR FALL, 1949, and SPRING, 1950

	100 rate each	1000 rate each		100 rate each	1000 rate each
10,000 Abies balsamea, 2-yr. S.....	\$0.06	\$0.05	1000 Forsythia spectabilis, 1-yr. C.....	\$0.06	\$0.05
5000 3-yr. S.....	.11	.10	200 Hamamelis vernalis, 1-yr. S.....	.03½	...
2000 5-yr. T.....	.20	.18	200 Hamamelis virginiana, 1-yr. S.....	.03½	...
1000 Abies lasiocarpa (Alpine Fir), 3-yr. S, 3 to 4 ins.....	.06	...	5000 Hydrangea arborescens grandiflora, 1-yr. T, 12 to 18 ins.....	.15	.12½
5000 Acer palmatum, transplanted understocks.....	.15	.14	3000 Hydrangea arborescens grandiflora, 1-yr. C (light).....	.06	.05½
1000 Acer palmatum atropurpureum, pot grafts.....	.75	...	500 Hex crenata, 1-yr. T.....	.18	...
500 Acer palmatum atropurpureum (seed-grown), T, 9 to 12 ins.....	.50	...	500 Hex crenata, 2-yr. T.....	.25	...
500 Acer palmatum atropurpureum (seed-grown), T, 12 to 15 ins.....	.75	...	2000 Hex crenata convexa (bullata), 1-yr. T.....	.18	.17½
500 Acer rubrum, 3-yr. T, 3 to 4 ft.....	.20	.18	2000 Hex crenata convexa (bullata), 2-yr. T.....	.25	.22½
500 Acer saccharum, 3-yr. T, 3 to 4 ft.....	.20	.18	5000 Juniperus, pot grafts, in variety.....	.45	.40
25,000 Ampelopsis veitchii, 1-yr. S, No. 1.....	.04	.03½	500 Juniperus depressa plumosa, T, 6 to 8 ins.....	.35	...
5000 1-yr. S, No. 2.....	.03	.02	1000 Juniperus glauca hetzi, T, 8 to 10 ins.....	.40	...
500 Azalea amoena, 1-yr. T.....	.18	...	500 Juniperus hibernica, 2-yr. T.....	.20	...
1000 Azalea amoena, 2-yr. T.....	.35	...	1000 Juniperus hibernica, TT, 10 to 12 ins.....	.35	...
1000 Azalea arnoldiana, 1-yr. T.....	.18	.15	1000 Juniperus pfitzeriana, 1-yr. T.....	.20	.20
500 Azalea hinodegiri, 1-yr. T.....	.18	...	1000 Juniperus pfitzeriana, 2-yr. T.....	.35	...
1000 Azalea hinodegiri, 2-yr. T.....	.35	...	2000 Juniperus scopulorum, 2-yr. S, 4 to 6 ins.....	.06	.05
2000 Azalea kaempferi, 1-yr. T.....	.18	.15	1000 Juniperus suecica, T, 6 to 8 ins.....	.20	...
1000 Azalea kaempferi, 2-yr. T.....	.25	...	10,000 Juniperus virginiana, 2-yr. S.....	.07	.06
2000 Azalea poukhanensis, 1-yr. T.....	.18	.15	5000 Kolkwitzia amabilis, 1-yr. T.....	.12	.10
1000 Azalea poukhanensis, 2-yr. T.....	.25	...	2000 Laburnum vulgare, 1-yr. S.....	.08	.07½
5000 Berberis koronae, 1-yr. S.....	.04½	.04	5000 Laburnum vulgare, 2-yr. T.....	.12	.10
5000 Berberis thunbergii, 1-yr. S.....	.01½	.01½	5000 Larix decidua (europaea), 3-yr. S.....	.10	.09
5000 2-yr. S.....	.05	.04	5000 Leucothoe cuneata, 1-yr. T.....	.18	...
500 2-yr. T.....	.15	...	2000 Ligustrum amurense, 1-yr. T, 8 to 10 ins.....	.05	.04½
5000 Berberis thun. atropurpurea, 2-yr. T, 6 to 9 ins.....	.08	.07½	1000 Ligustrum ibolium, 1-yr. T, 18 to 24 ins.....	.05	.04½
2000 2-yr. T, 9 to 12 ins.....	.10	.09	2000 Ligustrum ovalifolium, 1-yr. T, 18 to 24 ins.....	.05	.04½
5000 2-yr. T, 12 to 18 ins.....	.15	.12½	300 Liriodendron tulipifera (whips), 5 to 6 ft.....	.50	.50
2000 Buxus sempervirens, 2-yr. T, 4 to 8 ins.....	.15	...	1000 Magnolia soulangeana, pot grafts, Spring.....	.60	...
1000 Buxus suffruticosa, 2-yr. T, 4 to 6 ins.....	.25	...	500 Magnolia soulangeana, 1-yr. T.....	1.00	...
200 Catalpa speciosa, 1-yr. S.....	.03	...	500 Magnolia stellata, pot grafts, Spring.....	.60	...
500 Cedrus atlantica glauca, pot grafts.....	.60	...	2000 Mahonia aquifolium, 1-yr. S.....	.06	.05
500 Celastrus orbiculatus, 1-yr. S.....	.05	.04½	2000 Malus, assorted varieties, 1-yr. grafts, 18 to 24 ins.....	.25	.25
300 Chamaecyparis filifera aurea, TT, 12 to 15 ins.....	.60	...	1000 Malus, assorted varieties, 2-yr. grafts, 2 to 3 ft.....	.35	...
500 Chamaecyparis obtusa gracilis, pot grafts.....	.35	...	6000 Philadelphus virginialis, 1-yr. HWC.....	.07	.06½
1000 Chamaecyparis plumosa, 1-yr. T.....	.12	.10	2000 Photinia villosa, 1-yr. S.....	.03	.02½
1000 2-yr. T.....	.15	.14	25,000 2-yr. S.....	.04	.03½
250 3-yr. T.....	.25	.20	20,000 3-yr. T.....	.10	.09
1200 TT, 12 to 15 ins.....	.35	.30	20,000 Picea canadensis alba, 3-yr. S.....	.06	.05
500 TT, 15 to 18 ins.....	.40	.35	8000 Picea canadensis alba, 3-yr. T.....	.10	.09
1000 Chamaecyparis plum. argentea, TT, 12 to 15 ins.....	.40	...	5000 Picea canadensis densata, 3-yr. S.....	.07	.06
2000 Chamaecyparis plumosa aurea, 1-yr. T.....	.12	.10	5000 Picea excelsa, 1-yr. S.....	.03	.02½
2000 2-yr. T.....	.15	.14	1500 Picea glauca albertiana, 3-yr. S, 6 to 8 ins.....	.07	.06
500 TT, 10 to 12 ins.....	.30	.25	2500 Picea glauca albertiana, 3-yr. S, 4 to 6 ins.....	.06	.05
500 Chamaecyparis plum. Gold Dust, TT, 12 to 15 ins.....	.40	...	1000 Picea pungens, 3-yr. S.....	.07	.06
200 Chionanthus virginicus, 1-yr. S.....	.04	...	5000 Picea pungens glauca, 3-yr. T.....	.08	.07½
50,000 Cornus florida, selected understocks.....	.06	.05	5000 Pieris japonica, 1-yr. T.....	.10	.09
3000 Cornus florida, No. 2, S.....	.03	.02½	5000 2-yr. T.....	.15	.14
5000 Cornus florida rubra, pot grafts.....	.40	.37½	2000 3-yr. T.....	.25	.22½
1000 Cornus florida rubra, 1-yr. T, grafts.....	.75	...	10,000 Pinus banksiana, 2-yr. S.....	.03	.02
2000 Cotoneaster acutifolia, 1-yr. S.....	.10	.09	1500 Pinus densiflora, 3-yr. S.....	.05	.04
2000 Cotoneaster horizontalis, 1-yr. S.....	.10	.09	6000 Pinus densiflora, 3-yr. T.....	.10	.09
500 Crataegus cordata, 2-yr. S.....	.15	...	500 Pinus flexilis, 3-yr. S, 4 to 6 ins.....	.15	...
500 Cryptomeria japonica lobbi, pot grafts.....	.60	...	5000 Pinus montana mughus, 1-yr. S.....	.03	.02½
5000 Cydonia japonica, 1-yr. S.....	.05	.04	5000 2-yr. S.....	.05	.04
10,000 Daphne encorum, rooted cuttings (Spring, 1950).....	.10	.09	10,000 3-yr. S.....	.08	.07
1000 Deutzia gracilis, rooted cuttings, (Spring, 1950).....	.05	.04	1000 3-yr. T.....	.10	...
1000 Deutzia lemolnei, rooted cuttings, (Spring, 1950).....	.05	.04	5000 Pinus nigra austriaca, 1-yr. S.....	.04	.03½
1000 Elaeagnus angustifolia, 1-yr. S.....	.06	.05	5000 2-yr. S.....	.06	.05
1000 Elaeagnus argentea, 1-yr. S.....	.06	.05	1000 3-yr. T.....	.10	.09
1000 Euclanthus campanulatus, 1-yr. S.....	.18	.18	5000 Pinus rigida, 2-yr. S.....	.03	.02
300 Euonymus europaeus, 1-yr. S.....	.04	.03½	2000 Pinus rigida, 3-yr. S.....	.04	.03
4000 Euonymus rad. coloratus, T, 10 to 12 ins.....	.20	.18	10,000 Pinus strobus, 3-yr. S.....	.05	.04
2000 Euonymus rad. coloratus, TT, 10 to 12 ins.....	.35	.30	10,000 Pinus sylvestris, 2-yr. T.....	.08	.07
2000 Euonymus radicans vegetus, rooted cuttings, Spring.....	.10	.09	5000 3-yr. T.....	.09	.08
5000 Euonymus radicans vegetus, 2-yr. T, 6 to 10 ins.....	.40	.35	5000 4-yr. T.....	.11	.10
2000 Fagus sylvatica, understocks for grafting.....	.10	.09	5000 Pinus thunbergii, 1-yr. S.....	.03	.02½
1000 Fagus sylvatica purpurea, 1-yr. S.....	.15	...	5000 Pinus thunbergii, 3-yr. T.....	.10	.10
500 Fagus sylvatica riversi, pot grafts.....	.60	...	5000 Populus nigra italica, 1-yr. C, 4 to 6 ft.....	.15	...
1000 Forsythia fortunei, 1-yr. C.....	.06	.05	200 Prunus amanogawa, 1-yr. Gr., 12 to 18 ins.....	.35	...
			200 Prunus maritima, 1-yr. S.....	.04	...
			1000 Prunus serrulata kwanzan, 1-yr. Gr., 12 to 18 ins.....	.35	...

saw the rose and perennial gardens and the greenhouse. William Butterworth formerly was president of the United States Chamber of Commerce and Mrs. Butterworth is a granddaughter of John Deere. The gardener, Chris Sorenson, conducted the group through the spacious grounds, the greenhouse, the perennial gardens with their especially fine hybrid delphiniums, and rose gardens and also gave the nurserymen a glimpse of the mansion. Here also were several fine pieces of ancient Greek and Roman statuary.

In other Moline gardens the group was shown a taxus hedge; the effective use of climbing roses on a garage; interesting perennial borders, one in particular showing delphiniums almost red in color; other fine hybrid delphiniums, and a fence entirely covered with climbing roses. At the Clem Hanson home, Moline, members visited a well labeled rose garden. The group was next conducted on a tour through the Rock Island arsenal and visited the gardens of the commanding officer, Col.

W. W. Warner. The Rock Island high school, with its pin oaks and rambler roses, was another point of interest. The grounds were landscaped by the Davenport Nursery. Following the tour a luncheon was held in the Watch Tower Inn at Black Hawk state park, Rock Island.

Up to this point Chairman Platt's plans went according to schedule, but a wedding party scheduled just ahead of the nurserymen's luncheon held up proceedings considerably. The course of true love held sway while

	100 rate each	1000 rate each		100 rate each	1000 rate each
300 <i>Prunus subhirtella pendula</i> , 1-yr. Gr., 12 to 18 ins. ....	\$.35	...	5000 <i>Taxus media</i> Halloran Strain, 2-yr. T., 6 to 8 ins. ....	\$.25	\$.22½
1000 <i>Pseudotsuga douglasii</i> , 2-yr. S. ....	.06	\$.05	5000 3-yr. T., 8 to 12 ins. ....	.35	.30
5000 <i>Pseudotsuga douglasii</i> , 3-yr. T. ....	.10	.09	5000 TT, 9 to 12 ins. ....	.60	.50
5000 <i>Pseudotsuga douglasii caesia</i> , 2-yr. S. ....	.07	.06	2000 <i>Taxus media</i> hatfieldi, 2-yr. T., 8 to 10 ins. ....	.25	.22½
2000 <i>Pseudotsuga douglasii caesia</i> , 4-yr. T. ....	.12	.10	3000 3-yr. T., 8 to 12 ins. ....	.30	.25
2000 <i>Pseudotsuga douglasii glauca</i> , 2-yr. S. ....	.07	.06	5000 TT, 10 to 12 ins. ....	.45	.40
3000 <i>Rhododendrons</i> , Named Hybrids, pot grafts, 50 per cent Reds. ....	.75	...	2000 3-yr. T., 12 to 15 ins. ....	.35	.30
<i>Rhododendrons</i> , Named Hybrids, pot grafts, All Reds. ....	.90	...	1000 TT, 12 to 15 ins. ....	.60	.50
5000 <i>Rosa rugosa</i> , 1-yr. S. ....	.08½	.08	5000 <i>Taxus media</i> hicksi, 2-yr. T., 8 to 12 ins. ....	.25	.20
5000 <i>Rosa rugosa alba</i> , 1-yr. S. ....	.10	.09	3000 TT, 8 to 10 ins. ....	.30	.25
1000 <i>Salix blanda</i> , 1-yr. C., 3 to 4 ft. ....	.08	.07½	11,000 TT, 10 to 12 ins. ....	.40	.35
1000 <i>Sophora japonica</i> , 1-yr. S. ....	.10	.09	1000 TT, 12 to 15 ins. ....	.50	.40
200 <i>Sorbus americana</i> , 1-yr. S. ....	.06	...	500 TT, 15 to 18 ins. ....	.75	...
2000 <i>Sorbus aucuparia</i> , 1-yr. S. ....	.25	.05	1000 <i>Taxus Moon's columnaris</i> , 2-yr. T., 8 to 10 ins. ....	.30	.25
1000 3-yr. T., 2 to 3 ft. ....	.35	...	2000 3-yr. T., 9 to 12 ins. ....	.35	.30
200 3-yr. T., 3 to 4 ft. ....	.50	...	1000 4-yr. TT. ....	.45	.40
1000 <i>Spiraea vanhouttei</i> , 1-yr. C. ....	.06	...	1000 <i>Thuja globosa</i> , 2-yr. T., 6 to 8 ins. ....	.15	.14
500 <i>Syringa vulgaris</i> , 3-yr. T., 2 to 3 ft. ....	.35	...	10,000 <i>Thuja occidentalis</i> , 2-yr. S. ....	.04	.03½
1000 <i>Syringa</i> , named French Hybrids, 1-yr. grafts ....	.25	...	1000 <i>Thuja occ. boothii</i> , 3-yr. T. ....	.35	.30
1000 <i>Syringa</i> , named French Hybrids, 2-yr. grafts ....	.35	...	1500 <i>Thuja occ. Columbia</i> , T., 6 to 8 ins. ....	.25	.20
1000 <i>Taxus buccata repandens</i> , 2-yr. T., 9 to 12 ins. ....	.35	...	1000 T., 8 to 10 ins. ....	.30	.25
2000 <i>Taxus brevifolia erecta</i> , T., 6 to 10 ins. ....	.35	.30	1000 TT, 8 to 12 ins. ....	.30	.25
500 <i>Taxus canadensis stricta</i> , T., 8 to 10 ins. ....	.35	.30	1000 <i>Thuja occ. compacta</i> , 2-yr. T., 6 to 8 ins. ....	.15	.14
3000 <i>Taxus capitata</i> (from cuttings), 2-yr. T., 8 to 12 ins. ....	.30	.25	350 4-yr. T., 8 to 15 ins. ....	.30	.25
1000 5-yr. TT. ....	.90	.85	500 TT, 8 to 10 ins. ....	.35	.30
500 3-yr. T., 9 to 12 ins. ....	.50	...	700 TT, 10 to 12 ins. ....	.40	.35
500 <i>Taxus capitata</i> (from seeds), TT, 15 to 18 ins. ....	1.60	1.50	1000 <i>Thuja occ. douglasii spiralis</i> , T., 10 to 12 ins. ....	.30	.25
500 <i>Taxus capitata</i> (from seeds), TT, 18 to 24 ins. ....	2.25	...	1500 <i>Thuja occ. elegantissima</i> , T., 8 to 10 ins. ....	.30	.25
50,000 <i>Taxus cuspidata</i> (Jap. Seeds), 1-yr. S. ....	.06	.05	600 TT, 10 to 12 ins. ....	.35	.30
10,000 <i>Taxus cuspidata</i> , 2-yr. T., 8 to 12 ins. ....	.25	.20	600 TT, 12 to 15 ins. ....	.40	.35
5000 3-yr. T., 10 to 12 ins. ....	.30	.25	1000 <i>Thuja occ. hoveyi</i> , 2-yr. T., 6 to 8 ins. ....	.15	.14
1000 (cutback), 3-yr. T. ....	.35	.30	3000 <i>Thuja occ. nigra</i> , 1-yr. T., 6 to 9 ins. ....	.15	.14
300 <i>Taxus cuspidata</i> (No. 1, Low type), 3-yr. T. ....	.30	...	1000 2-yr. T., 10 to 12 ins. ....	.25	.20
300 (No. 2, Semiupright), 3-yr. T. ....	.30	...	3000 3-yr. T. ....	.30	.25
300 (No. 3, Semiupright), 3-yr. T. ....	.30	...	2000 <i>Thuja occ. plicata</i> , 2-yr. S., 6 to 8 ins. ....	.05	.04
5000 TT, 8 to 12 ins. ....	.40	.35	1000 <i>Thuja occ. pumila</i> (Little Gem), T., 4 to 6 ins. ....	.20	.18
5000 TT, 12 to 15 ins. ....	.50	.45	2000 <i>Thuja occ. pyramidalis</i> , 2-yr. T., 8 to 12 ins. ....	.30	.25
1000 extra-heavy, TT, 12 to 15 ins. ....	1.00	...	1000 TT, 18 to 24 ins. ....	.75	...
1000 <i>Taxus cuspidata andersoni</i> , T., 8 to 12 ins. ....	.35	.30	3000 3-yr. T., 10 to 12 ins. ....	.35	.30
2000 <i>Taxus cuspidata brownii</i> , 1-yr. T., 6 to 8 ins. ....	.18	.17½	1200 <i>Thuja occ. recurva nana</i> , T., 6 to 8 ins. ....	.25	.20
3000 2-yr. T., 8 to 12 ins. ....	.30	.25	3500 <i>Thuja occ. wareana</i> , T., 6 to 8 ins. ....	.25	.20
2000 TT, 12 to 15 ins. ....	.60	...	1500 <i>Thuja occ. wareana</i> , TT, 8 to 12 ins. ....	.35	.30
2500 TT, 8 to 10 ins. ....	.35	.30	3000 <i>Thuja occ. woodwardii</i> , T., 6 to 8 ins. ....	.20	.18
3000 TT, 10 to 12 ins. ....	.40	.35	1000 <i>Thuja occ. woodwardii</i> , T., 8 to 10 ins. ....	.25	.22
1000 <i>Taxus cuspidata compacta</i> , T., 8 to 12 ins. ....	.40	.35	10,000 <i>Thuja orientalis</i> , 1-yr. S. ....	.03	.02½
2500 <i>Taxus cuspidata columnaris</i> , T., 8 to 12 ins. ....	.40	.35	10,000 <i>Thuja orientalis</i> , 2-yr. S. ....	.04	.03½
600 <i>Taxus cusp. columnaris</i> , 3-yr. T. ....	.35	.30	1500 <i>Thuja orientalis</i> , 3-yr. S. ....	.06	.05
200 TT, 9 to 12 ins. ....	.45	.45	600 <i>Thuja orientalis</i> , 4-yr. T. ....	.08	.07
400 TT, 12 to 15 ins. ....	.50	...	5000 <i>Thuja orientalis compacta</i> , 2-yr. S. ....	.05	.04
400 TT, 15 to 18 ins. ....	.75	...	350 <i>Thuja orientalis compacta</i> , 4-yr. T., 8 to 15 ins. ....	.30	.25
3000 <i>Taxus cuspidata nana</i> , 1-yr. T., 4 to 6 ins. ....	.15	.14	1000 <i>Thuja orientalis</i> , transplanted understocks. ....	.06	.05
2000 2-yr. T., 6 to 8 ins. ....	.25	.20	1000 <i>Tsuga canadensis</i> , 3-yr. T., 9 to 12 ins. ....	.30	.25
1500 <i>Taxus cuspidata nana</i> (dwarf), 3-yr. ....	.35	.30	5000 2-yr. T., 8 to 10 ins. ....	.25	.20
1000 TT, 6 to 10 ins. ....	.40	.35	1000 TT, 12 to 18 ins. ....	.60	...
2000 TT, 10 to 12 ins. ....	.50	...	500 <i>Tsuga sargentii</i> , pot grafts. ....	.75	...
300 TT, 12 to 15 ins. ....	.85	.75	5500 <i>Vaccinium Hybrid Blueberries</i> , rooted cuttings, Varieties: Cabot, Pioneer, Rancocas, Jersey, Stanley, Rubel. ....	.15	.15
50 <i>Taxus cuspidata thayeri</i> , TT, 12 to 15 ins. ....	.75	...	500 <i>Viburnum burkwoodii</i> , pot grafts. ....	.40	...
50 <i>Taxus cuspidata thayeri</i> , TT, 9 to 12 ins. ....	.50	...	500 <i>Viburnum carlesii</i> , pot grafts. ....	.40	...
2000 <i>Taxus intermedia</i> (spreading), T., 8 to 12 ins. ....	.40	.35	500 <i>Viburnum dilatatum</i> , 2-yr., 12 to 18 ins. ....	.15	...
2000 <i>Taxus intermedia</i> (spreading), TT, 10 to 12 ins. ....	.45	.40	200 <i>Viburnum lentago</i> , 1-yr. S. ....	.04½	...
2500 <i>Taxus intermedia hunnelliana</i> , T., 8 to 12 ins. ....	.35	.30	300 <i>Viburnum opulus</i> , 1-yr. S. ....	.04½	...
1000 <i>Taxus media</i> (upright type), 3-yr. T., 8 to 10 ins. ....	.30	.25	500 <i>Weigela Eva Rathke</i> , 1-yr. C. ....	.15	...
2000 T., 12 to 15 ins. ....	.35	.30	1000 <i>Weigela rosea</i> , 1-yr. C. ....	.08	...
150 TT, 12 to 15 ins. ....	.50	...	500 <i>Weigela vaniceki</i> , 1-yr. C. ....	.20	...
300 TT, 15 to 18 ins. ....	.75	...	1000 <i>Wistaria sinensis</i> , 1-yr. grafts. ....	.50	...

Please note—All rooted cuttings and pot grafts will be ready for shipment Spring, 1950, at proper time. These cannot be included in Fall, 1949, shipments.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

## E. D. ROBINSON SALES AGENCY

38 South Elm St.

Wallingford, Conn.

"A friendly, efficient service"

hungry nurserymen delved into the ancestry of Black Hawk and other Indian notables. As a result, no other group of nurserymen in the country is probably so well posted on Indian history.

### GOLD ROSE FOLDER.

A handsome promotional folder has been prepared by Armstrong Nurseries, Ontario, Calif., featuring one of its new hybrid roses, Sutter's Gold, which has been chosen as an

All-America Rose Selections winner for 1950 and was last June awarded the foreign gold medal at the Bagatelle competitions at Paris, making it an international winner.

Befitting the name of the rose, the 10x12-inch, 4-page folder is gold-colored paper, with a full-color, life-size reproduction of the rose blooms pasted on the third page. "After 100 years gold is again discovered in California—this time by Armstrong rose hybridists," the description on the opposite page states in a paragraph

telling that the rose was named in commemoration of the discovery of gold at Sutter's mill and the one hundredth anniversary of California's statehood.

THE offices of the National Garden Institute are located at 1010 Hearst square, Chicago, since the closing of the New York office May 31. Rodney H. Brandon, president, and Lester J. Norris, chairman, will maintain headquarters in the Arcade building, St. Charles, Ill.



# ✓ PEONIES ✓ DAY LILIES ✓ JAPANESE IRIS

FOR FALL PLANTING

## PEONIES

(Standard 3 to 5-eye divisions from young plants.)

	Per 10	Per 100
Alexandre Dumas (7.1) Pink. Good cutting variety.....	\$3.00	\$25.00
Baroness Schroeder. (9.0) Flesh-white. Very large. Midseason.....	4.50	40.00
Duchesse d'Orleans. (6.1) Deep pink. Good cut flower. Late.....	3.00	25.00
Edulis Superba. (7.6) Bright old-rose-pink. Double. Very early.....	3.50	30.00
Festiva Maxima. (9.3) White, crimson flecks. Large, double. Early.....	4.00	35.00
Floral Treasure. (7.5) Clear pink. Large. Midseason to late.....	3.00	25.00
Fontenelle. Deep red. Large. Midseason.....	4.50	40.00
Fragrans. (5.8) Deep pink. Medium. Late midseason.....	3.00	25.00
Frances Willard. (9.1) Pure white. Large. Late midseason.....	5.00	45.00
Karl Rosenfield. (8.8) Crimson. Tall, double. Midseason.....	4.20	38.00
L'Esperance. Bright-pink. Medium. Early midseason.....	3.00	25.00
Marie Lemoine. (8.5) Pure white. Large. Late.....	4.00	35.00
Mary Brand. (8.7) Dark, clear crimson. Large. Midseason.....	4.50	40.00
Mme. de Verneville. (7.9) White, crimson marks. Double. Early.....	4.00	35.00
Mme. Calot. (8.1) Flesh-pink. Large, double. Early.....	3.00	25.00
Mons. Jules Elie. (9.2) Light rose-pink. Large, double. Early.....	5.00	45.00
Richard Carvel. (8.8) Bright crimson. Double, large. Early.....	4.50	40.00
Sarah Bernhardt. (9.0) Dark rose-pink. Large, double. Late.....	4.50	40.00
Mixed Colors.....	2.50	20.00

## HEMEROCALLIS (Day Lilies)

	Per 10	Per 100
Florham. Soft yellow. Sweet scented.....	\$1.20	\$10.00
Gold Dust. Bright yellow, reverse petals brown.....	1.80	15.00
Kwanso Floreplena. Rich bright orange. Double petaled.....	1.40	12.00
Margaret Perry. Orange-scarlet. July and August.....	1.80	15.00
Middendorffi. Rich orange-yellow.....	1.20	10.00
Mikado. Rich orange. Large. June and July.....	1.80	15.00
Mrs. W. H. Wyman. Soft yellow. July and August.....	2.50	20.00
Ophir. Golden-yellow. July and August.....	1.80	15.00
Sovereign. Soft chrome-yellow.....	1.20	10.00
Thunbergi. Buttercup-yellow. Sweet scented.....	1.80	15.00

## JAPANESE IRIS (Iris Kaempferi)

	Per 10	Per 100
Ben Chadai. Very dark mahogany-purple. Double.....	\$2.10	\$18.00
Catherine Perry. Blue, with purple glow. Double.....	2.10	18.00
Data Dagu. Rich claret-red. Single.....	2.40	20.00
Gold Bound. Pure white, gold-banded center. Double.....	2.10	18.00
Kagari-Bi. Chinese-red, lighter veins.....	1.80	15.00
Koko-No-Iro. Dark blue, rich violet-purple.....	2.10	18.00
Mahogany. Velvety mahogany-red. Large double flowers.....	2.40	20.00
Momyi-No-Taki. Dark ruby with gold center. Six petals.....	2.10	18.00
Mrs. Geo. Stumpp. White, lavender veined. Giant.....	2.10	18.00
Norma. Lavender-pink, yellow center. Double.....	2.10	18.00
Patrocle. Superb dark violet, single.....	1.80	15.00
Pluton. Mahogany-red. Single.....	2.40	20.00
Purple and Gold. Violet-purple, golden throat. Double.....	2.10	18.00
Rose Anna. Ivory-white, ruby-red veins. Large double.....	2.10	18.00
Seacrest. Frosty white, blue center.....	2.10	18.00
Mixed Colors.....	1.40	12.00

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OTTAWA, KANSAS

## OBITUARY

### Charles W. Simons.

Charles William Simons, 63, owner of Simons Nursery, Charleston, S. C., died in June at Charleston.

A native of Charleston, Mr. Simons was born in 1886 and attended local schools. In addition to belonging to Franklin Masonic lodge, he was a charter member of St. Andrews lodge and a member of the American Camellia Society.

Survivors include his widow, Mrs. Eleanor Gaillard Simons; a son, Charles William, Jr.; two daughters, Eleanor and Elizabeth, and a sister, Emma Elizabeth, all of Charleston, and a brother, H. Mazyck Simons, Summerville.

### Stephen Simko.

Stephen Simko, 52, who operated Simko Nurseries, Painesville, O., for twenty-five years, died June 14 at his home at Painesville following a long illness.

Born in 1897 at Shirinyfalva, Ung Megye, Hungary, Mr. Simko came to the United States in 1914.

Surviving are his widow, two daughters, Mrs. Irene Kippola and Mrs. Marvin Braski, Painesville, three sisters and a brother.

### Gordon Cooper.

Gordon Cooper, well known landscape architect, died June 14 at Cleveland, O. He was a lecturer and an author on horticultural subjects. He had compiled a book on arboretums.

A native of New York state, Mr. Cooper graduated from the Cornell University school of landscape architecture, Ithaca, N. Y., and became associated with Olmsted Bros., Boston. He moved to Cleveland in 1914. He was a member of the Cleveland chapter of the American Society of Landscape Architects. Mr. Cooper is survived by his widow.

### Dr. Warren A. Ruth.

Dr. Warren A. Ruth, 65, former University of Illinois professor of pomological physiology, died at his home, at Los Angeles, Calif., June 4. He had been on sick leave from the university since November 1, 1947, and had moved to California because of his health.

He began his teaching career as an instructor in chemistry at Wabash in 1908 and was an assistant in horticultural chemistry at Illinois from 1909 to 1918, an assistant professor of pomological physiology from 1919 to 1925, an associate professor for the

# SAVE-Flower Seeds in Bulk

## ACHILLEA

ageratum yellow, Sweet Yarrow, 1/8 oz. \$0.55  
 filipendula, yellow, 1/8 oz. .45  
 millefolium kelwayi, magenta-rose, 1/8 oz. .35

## AGROSTEMMA

coronaria, Rose Campion, violet, 1/4 oz. .30  
 coronaria atrosanguinea, deep red, 1/4 oz. .25

## ALSTROEMERIA

aurantiaca, 1/8 oz. .45

## ALYSUM

montanum, yellow, 1/8 oz. .45  
 saxatile compactum Gold Dust, 1/4 oz. .30

## ANEMONE

coronaria Queen, blue, 1/8 oz. .30  
 coronaria Queen, deep scarlet, 1/8 oz. .35

## ANTHEMIS

kelwayi, yellow, 1/4 oz. .25  
 tinctoria, Golden Marguerite, 1/4 oz. .30

## AQUILEGIA

coerulea, sky-blue, 1/8 oz. .35  
 coerulea White Queen, 1/8 oz. .45  
 canadensis, old rose with yellow, 1/8 oz. .45  
 chrysantha, Golden Columbine, 1/8 oz. .35  
 clamatiflora, 1/8 oz. .70  
 Dobbies' Imp. long-spurred hybrids, mixed, 1/8 oz. .55  
 long-spurred hybrids, Blue Shades, Copper Queen, Orange and Scarlet, Pink Shades, Rose Shades, White or Yellow Shades, each 1/8 oz. .55  
 long-spurred hybrids, mixed, 1/8 oz. .55  
 longissima, pale yellow, 1/8 oz. 1.75  
 Mrs. Scott Elliott's long-spurred hybrids, mixed, 1/8 oz. .55

## ARMERIA

formosa, lg. fl., hybrids, 1/8 oz. .30

## ASCLEPIAS

tuberosa, 1/4 oz. .55

## AUBRIETA

Giant hybrids, mixed, 1/8 oz. .35

## BAPTISIA

australis, 1/4 oz. .45

## BELLIS

perennis, dble., Longtellow or Snow-ball, 1/8 oz. .35  
 perennis Monstrosa, dble. crimson, rose, white or mixed, 1/8 oz. .45  
 perennis Monstrosa tuberosa, Etna, red, 1/8 oz. .40

## BOCCONIA

cordata, 1/4 oz. .30

## CALLIRHOE

involucrata, reddish-purple, 1/8 oz. .45

## CAMPANULA

annual Canterbury Bells, mixed, 1/8 oz. .30  
 barbata, blue, 1/8 oz. .30  
 carpatica, blue or white, each 1/8 oz. .30  
 medium calycanthema, Cup and Saucer, dark blue, lilac, rose or white, each 1/8 oz. .30  
 medium calycanthema, mixed, 1/8 oz. .30  
 medium, double, mixed, 1/8 oz. .25  
 medium, single, dark blue, lilac, rose-pink, white, or mixed, each 1/8 oz. .45  
 rotundifolia, 1/8 oz. .25

## CANDYTUFT

gibraltarica, lilac, 1/4 oz. .30

## CARNATION

Chabaud's Imp. cardinal-red (Sparkler), crimson (Nero), deep rose, flesh-pink, salmon-rose (Legion of Honor), white (Jeanne D'Arc), yellow (Marie Chabaud) or violet, each 1/8 oz. .45  
 Chabaud's Imp., mixed, 1/8 oz. .40  
 Enfant de Nice, pale pink, red, rose, salmon, scarlet, striped or white, each 1/8 oz. .90  
 Enfant de Nice, mixed, 1/8 oz. .55  
 Grenadin Black King, Cardinal-red, Golden Sun, Rose Queen, Snow White, Triumph Pink, or White Gold, each 1/8 oz. .45  
 Grenadin, mixed, 1/8 oz. .45  
 Marguerite, mixed, 1/8 oz. .35  
 Marguerite, Gt. Malmaison strain, mixed, 1/8 oz. .45

## CENTAUREA

gymnocarpa, rose, Dusty Miller, 1/2 oz. .35

## CERASTIUM

biebersteini, white, 1/4 oz. .30

## CHELONE

barbata hybrid, mixed, 1/8 oz. .25

## CHRYSAANTHEMUM

indicum sgle. ely. fl., mixed, 1/8 oz. .65  
 leucanthemum Giant, double white, 1/8 oz. .40  
 leucanthemum May Queen, 1/8 oz. .30  
 leucanthemum Shasta Daisy, 1/8 oz. .25  
 leucanthemum Westralia, 1/8 oz. .25

## COREOPSIS

lanceolata, lg. fl. yellow, 1/2 oz. .25  
 lanceolata Mayfield Giants, 1/2 oz. .30  
 lanceolata Sunburst, dble. golden, 1/2 oz. .35

## DELPHINIUM

Belladonna, light blue, 1/4 oz. \$0.45  
 Belladonna Clivedon Beauty, 1/4 oz. .60  
 Belladonna, light blue, improved, 1/4 oz. .65  
 Bellamosum, dark blue, 1/4 oz. .45  
 Blackmore & Langdon hybrids, mixed, 1/4 oz. .55  
 formosum, deep blue, 1/4 oz. .45  
 Gold Medal hybrids, 1/4 oz. .40  
 Iceberg, pure white, 1/4 oz. .45  
 nudicaule, scarlet, 1/4 oz. .90  
 Pacific Giant hybrids, mixed, 1/4 oz. 1.00  
 Wrexham (Hollyhock fl.), mixed, 1/4 oz. .80

## DIANTHUS

allwoodi alpinus, 1/8 oz. .45  
 barbatius—see Sweet William  
 chinensis, double, mixed, 1/8 oz. .30  
 chinensis, single, mixed, 1/8 oz. .30  
 deltoides, crimson, 1/8 oz. .65  
 deltoides, rose, Maiden Pink, 1/8 oz. .55  
 deltoides erecta, red, 1/8 oz. .45  
 deltoides splendens, red, 1/8 oz. .65  
 hedderwigi, dble., mixed, 1/8 oz. .30  
 hedderwigi, single, mixed, 1/8 oz. .25  
 plumarius, single, mixed, 1/8 oz. .25  
 plumarius semperflorens, single, mixed, 1/8 oz. .30  
 Sweet Wivelsfield, dble., mixed, 1/8 oz. .45  
 Sweet Wivelsfield sgle., mixed, 1/8 oz. .30

## DICENTRA

eximia, 1/8 oz. .45

## DIGITALIS

gloxinaeflora, lg. fl., rose, 1/4 oz. .30  
 The Shirley, white, mixed, each 1/4 oz. .30  
 purpurea, 1/4 oz. .30

## ECHINOPS

ritro, violet, 1/2 oz. .25  
 sphaerocephalus, 1/4 oz. .40

## EREMURUS

bungei perfectus, 1/8 oz. .75  
 robustus, 1/8 oz. .65  
 yellow, orange, bronze hybrids, 1/8 oz. .75

## EULALIA

miscanthus japonica, 1/4 oz. .40

## GAILLARDIA

lg. fl. Dazzler, 1/8 oz. .35  
 lg. fl. Goblin, 1/8 oz. .40  
 lg. fl. mixed, 1/8 oz. .30

## GENTIANA

acaulis, dk. blue, 1/8 oz. .45  
 lutea, yellow, 1/8 oz. .50

## GEUM

Lady Stratheden, 1/4 oz. .50  
 Mrs. Bradshaw, 1/4 oz. .45

## GYPSOPHILA

oldhamiana, 1/8 oz. .45  
 paniculata, double, white, 1/8 oz. .60  
 paniculata, single, white, 1/8 oz. .25  
 repens, dwarf, white, 1/8 oz. .40

## HELIOTROPIUM

King of the Blacks, 1/8 oz. .50  
 lemoine's, mixed, 1/8 oz. .45

## HELLEBORUS

foetidus, 1/8 oz. .30  
 niger, Christmas Rose, 1/4 oz. .35

## HOLLYHOCK

Chater's double, black, Corfan-pink, lilac, maroon, Newport Pink, rose, salmon-rose, scarlet, white or mixed, each 1/8 oz. .45  
 Indian Spring, sgle., annual, 1/4 oz. .30  
 Triumph, dble., waved and fringed, mixed, 1/4 oz. .45  
 single, mixed, 1/4 oz. .30

## HYOSCYAMUS

niger, Henbane, 1/2 oz. .50

## IRIS

germanica, 1/4 oz. .30  
 kaempferi, 1/4 oz. .55

## KUDZU VINE—See Pueraria thunbergiana

## LEONTOPODIUM

alpinum, 1/8 oz. .55

## LIATRIS

pycnostachya, purple, rubbed seeds, 1/8 oz. .40  
 spicata, blue, rubbed seeds, 1/8 oz. .45

## LINARIA

dalmatica, yellow, 1/4 oz. .40

## LINUM

flavum, Golden Flax, 1/8 oz. .55  
 perenne, blue, 1/8 oz. .25  
 perenne, white, 1/8 oz. .30

## LOBELIA

cardinalis, 1/8 oz. .55

## LUPINUS

polyphyllus rose salmon, Sunshine, white or mixed, each 1/8 oz. .35  
 polyphyllus, blue, 1/8 oz. .30  
 polyphyllus, Russell's hybrids, 1/2 oz. .40

## LYCHNIS—see also AGROSTEMMA

haageana hybrids, 1/4 oz. \$0.55  
 viscaria splendens, rose, 1/4 oz. .30

## LYTHRUM

salicaria, purple, 1/8 oz. .55

## MATRICARIA

capensis, dble., white, Feverfew, 1/4 oz. .35  
 eximia, dble., dt., Golden Ball, Lemon Ball or Snowball, each 1/4 oz. .40

## MECONOPSIS

baileyi, sky-blue, 1/8 oz. .75

## MIMULUS

moschatus, 1/8 oz. .55  
 tigrinus, yellow-spotted, 1/8 oz. .35

## MONARDA

fiatula, 1/8 oz. .55  
 menthaefolia, 1/8 oz. .55

## MYOSOTIS

alpestris, blue, 1/4 oz. .40  
 alpestris Blue Ball, 1/4 oz. .55  
 alpestris, indigo-blue (Royal Blue), 1/4 oz. .45  
 alpestris Messidor, blue, late fl., 1/4 oz. .45  
 alpestris, rose, 1/4 oz. .40  
 alpestris, dwarf, indigo-blue, 1/4 oz. .60  
 alpestris robusta, blue, 1/4 oz. .60

## NEPETA

musini, violet, 1/4 oz. .35

## PANSY—see also VIOLA

Swiss Giants: Alpenglow, Berna, Jungfrau, Luna, Rhinegold or Silverbride, each 1/4 oz. 1.10  
 Swiss Giants, mixed, 1/4 oz. .60  
 Trimarceau, mixed, 1/4 oz. .55

## PENSTEMON

glaber roseus, rose, 1/8 oz. .75

## PHYSOSTEGIA

virginiana, rosy-lilac, 1/4 oz. .45  
 virginiana, white, 1/4 oz. .45

## POLEMONIUM

caeruleum, blue, 1/8 oz. .75

## POPPY

nudicaule, Gartford Gts., mixed, 1/8 oz. .35  
 nudicaule, Sanford's hybrids, mixed, 1/8 oz. .40  
 nudicaule, The Emperor, orange, 1/8 oz. .40  
 nudicaule, Unwin's Giant Coonara, 1/8 oz. .40  
 nudicaule, single, white, 1/8 oz. .35  
 nudicaule, single, mixed, 1/8 oz. .30

## POTENTILLA

warrensi, yellow, 1/8 oz. .75

## PRIMULA

polyantha, yellow, 1/8 oz. .45

## PUERARIA

thunbergiana (Kudzu Vine), 1/2 oz. \$0.40; lb. 2.50

## PYRETHRUM

roseum, single, pink, 1/8 oz. .35  
 roseum, single, mixed, 1/8 oz. .30

## RANUNCULUS

asiaticus superbisima, mixed, 1/8 oz. .35

## SALVIA

pratensis, 1/8 oz. .45

## SCABIOSA

caucasica, House hybrids, 1/8 oz. .55  
 caucasica, lilac, 1/8 oz. .45  
 caucasica perfecta, lg. fringed-lilac, 1/8 oz. .45  
 caucasica, white, 1/8 oz. .55  
 caucasica, mixed, 1/8 oz. .45  
 columbaria, pink, 1/8 oz. .40

## SIDALCEA

hybrids, mixed, 1/8 oz. .50  
 Rose Queen, 1/4 oz. .55

## STATICE

dumosa, 1/4 oz. .40  
 latifolia, dp. lavender, 1/4 oz. .35

## SWEET WILLIAM

double, mixed, 1/4 oz. .30  
 single, Auricola-eyed, Coppery-red, Dunnet, Newport Pink, Scarlet Beauty or Sutton's Fairy, each 1/4 oz. .25  
 single, white, 1/4 oz. .25  
 single, mixed, 1/2 oz. .25

## THALICTRUM

dipterocephalum, 1/4 oz. .35

## THERMOPSIS

caroliniana, 1/4 oz. .40

## TRITOMA

early hybrids, 1/8 oz. .35

## TROLLIUS

europaeus, 1/8 oz. .80

## VALERIANA

rubra or white, each 1/4 oz. .30

## VIOLA—see also PANSY

cornuta Admiration, 1/4 oz. .60  
 cornuta Arkwright Ruby, 1/4 oz. .90  
 cornuta Blue Beauty, 1/4 oz. .90  
 cornuta Blue Butterfly, 1/4 oz. .75  
 cornuta Blue Elf, 1/4 oz. .80  
 cornuta Blue Perfection, 1/4 oz. .65  
 cornuta King Henry, 1/4 oz. .75  
 cornuta Papilio, blue and white, 1/4 oz. .65  
 cornuta White Perfection, 1/4 oz. .65  
 cornuta, mixed, 1/4 oz. .60

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92 Warren St.  
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# THANKS

to all our customers, both old and new, for allowing us to serve you during the past year. We hope you enjoyed a most successful year and that you have many more equally successful years in the future.

We trust you were highly pleased with all stock received from us and we ask that you please keep us on your current mailing lists so that we may have the privilege of quoting on all your want lists.

We call your attention to our ad on page 55.

## FOREST NURSERY COMPANY, Inc.

McMINNVILLE, TENN.

J. R. Boyd, President

John T. Boyd, Vice-president

Hiram B. Stubblefield, Superintendent

next two years, and was made full professor in 1927.

Dr. Ruth was the author of bulletins and scientific papers on spray materials, spray residue removal and the toxic effect of spray residues.

### LONG ISLAND MEETING.

Members of the Long Island Nurserymen's Association met June 21 at Geide's restaurant, Centerport, N. Y., to instruct delegates to the convention of the American Association of Nurserymen, July 17 to 21, at San Francisco.

Final arrangements were also made to accept the invitation of George Hart to hold the Long Island group's summer outing at Hart's Nurseries, Wading River, later this summer.

**STARTED** April 28, 1949, the Barron Nursery, 16000 Huron River drive, Romulus, Mich., is owned and operated on twenty acres by Lee and Helene Barron.

**LONNIE T. WALKER** has purchased the business of the late A. C. P. Tyler, owner of Tyler's Stores, Beaumont, Tex., and has changed the name of the firm to Walker Seed & Nursery.

### QUALITY LINERS WE HAVE TO OFFER IN QUANTITY

*Acer Palmatum*, 1-year seedlings.  
*Acer Palmatum Atropurpureum*, seed-grown, 12 to 18 ins.  
*Ampelopsis Veitchii*, 1-year seedlings, and 2-year transplants.  
*Aristolochia Sipho* and *Tomentosum*, 1-year seedlings.  
*Berberis Thunbergii Atropurpurea*, 2-year seedlings and transplants.  
*Cornus Florida*, selected seedlings for grafting.  
*Elaeagnus Angustifolia*, 1-year seedlings.  
*Hibiscus Syriacus*, 1-year seedlings.  
*Hydrangea Arborescens Grandiflora*, 1-year transplants.  
*Hydrangea Paniculata*, 1-year transplants.  
*Hydrangea Paniculata Grandiflora*, 1-year transplants.  
*Juniperus Communis Hibernica*, 2-year transplants.  
*Laburnum Vulgare*, 1-year seedlings.  
*Ligustrum Amurense* (North), 1-year cuttings.  
*Magnolia Soulangeana*, 1-year bedded grafts.  
*Picea Pungens Glauca*, 3-year seedlings.  
*Pinus Nigra Austriaca*, 1-year seedlings.  
*Sophora Japonica* and *Pendula*, 1-year seedlings.  
*Taxus Cuspidata*, *Capitata*, *Nana*, *Media*, *Browni*, *Hatfieldi*, *Hicksi*, *Halloran* and *Moon's Columnaris*, in 1, 2 and 3-year transplants, also twice transplanted.  
*Thuja Occidentalis*, *Compacta*, *Elegantissima*, *Hoveyi*, *Nigra*, *Pyramidalis*, *Wareana* and *Woodwardi*, 1, 2 and 3-year transplants, also twice transplanted.  
*Thuja Orientalis*, 1-year seedlings.  
*Tsuga Canadensis*, 2, 3 and 4-year transplants.  
*Viburnum Carlesi*, pot grafts for spring delivery.  
*Weigela Rosea*, 1-year cuttings.

Ask for our complete list of liners and larger material.

**VERKADE'S NURSERIES**

New London, Conn.

### ROBERTS NURSERY CO.

Wholesale growers of Dependable  
**FRUIT TREES**

We solicit your list of wants.  
 DANSVILLE, N. Y.



# CONVENTION TIME IS VACATION TIME!

Why not combine business with pleasure when you are traveling either to or from the Annual Convention of the American Association of Nurserymen, or to the various State and Regional meetings, or better still, just come to see us? We will welcome your visit, and consider it a privilege to show you our many fine blocks of well grown stock. This material is grown economically and our prices are right. Compare!

## Some of our specialties

Azaleas

Barberry (Green and Red)

Evergreens in splendid assortment

Flowering Shrubs

Hardy Vines

Perennials

Privet in variety

Roses, Delaware-grown

Write for quotations, or contact our Mr. Fred J. Noble at the San Francisco Convention.

## DIAMOND STATE NURSERIES

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MILFORD, DELAWARE

## LOVETT'S NURSERY, Inc.

LITTLE SILVER, N. J.



# ROSES

## FROM CALIFORNIA"



### SUTTER'S GOLD

Patent Applied For  
\$2.50



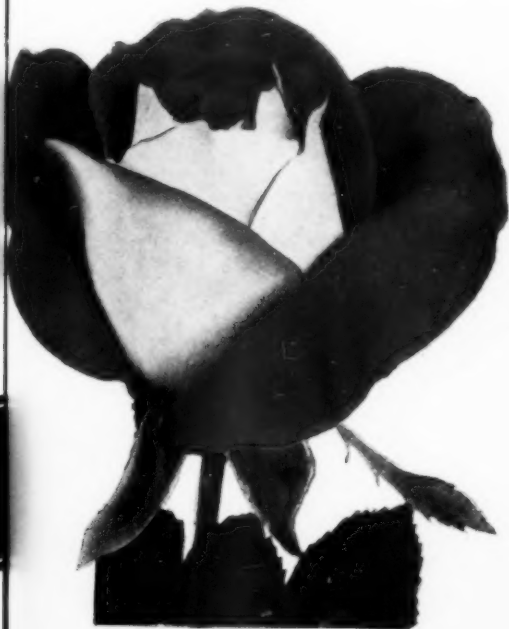
### FASHION

Plant Patent No. 789  
\$2.00



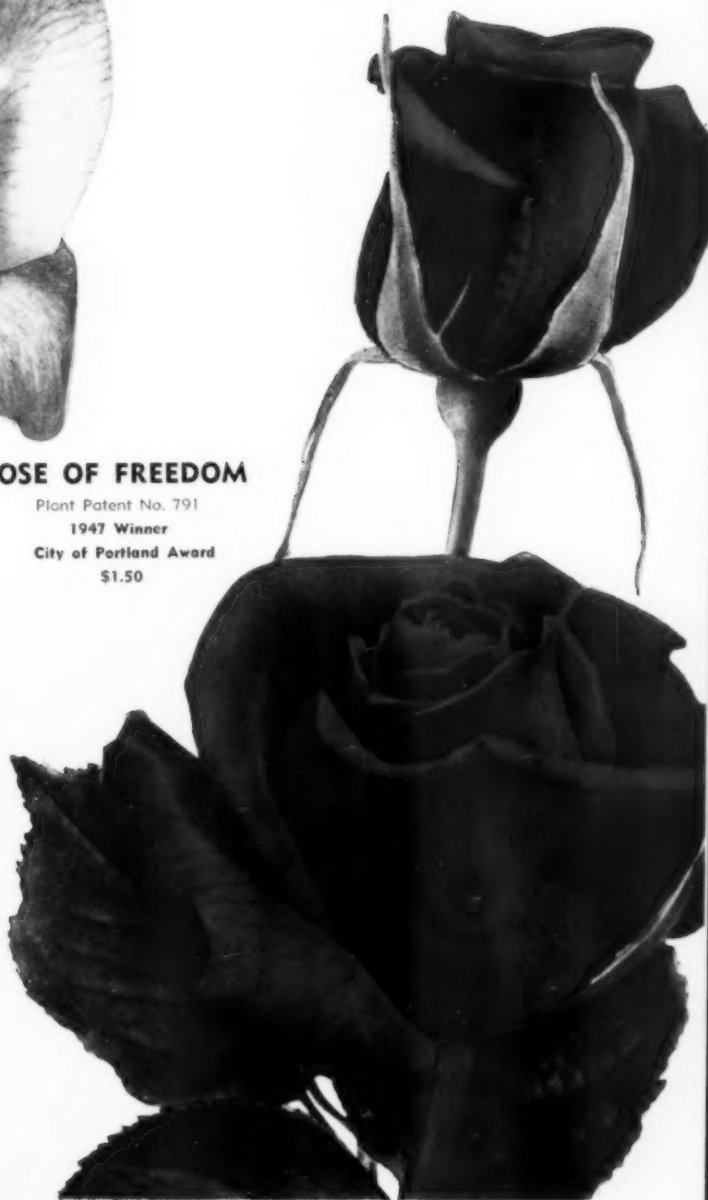
### FORTY-NINER

Plant Patent No. 792  
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### ROSE OF FREEDOM

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1947 Winner  
City of Portland Award  
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Capistrano

### CAPISTRANO

A vigorous and sturdy hybrid Tea Rose, producing unusually large buds and flowers with rich and heavy fragrance, borne on extra long stems. Capistrano is a rich shade of deep, glowing rose-pink in the bud and open flower, with beautiful leathery foliage.

### MISSION BELLS

A beautiful deep salmon-pink hybrid Tea Rose opening to a clear shrimp-pink color. Borne on long stems, flowers often measure 5½ inches and are generally borne singly. The color deepens in cool weather and does not fade



Mission Bells



### Order Early

Germain's All-America Award Winning Roses, Capistrano and Mission Bells, are now being offered by leading wholesale Rose growers for the 1949-50 season.

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Los Angeles 21, Calif.



Members American Association of Nurserymen

## **D. HILL NURSERY COMPANY**

WHOLESALE PROPAGATORS AND GROWERS  
EVERGREEN SPECIALISTS - LARGEST GROWERS IN AMERICA

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(NEAR CHICAGO)

To Our Trade Friends:

Our Summer inventory is not as yet complete, though we expect to finish this shortly, and will at that time prepare a Wholesale Catalog for mailing to the trade.

Bill Smart and Jack Hill, representing our firm, will be glad to discuss Fall-delivery Evergreens with you at the San Francisco Convention.

Yours very truly,

D. HILL NURSERY COMPANY



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RA-PID-GROW contains all the known elements and trace elements necessary for growth, production, and a normal plant life—all immediately available to the plant, in one secret formula.

Most of your troubles are caused by deficiency in food elements. You can't correct this by insecticides or fungicides. Get smart—use a balanced ration . . .

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*The Original, Nitrogen-Derived-from-Urea Complete Foliage Plant Food*

Don't expect first class stock from a one-chemical diet. RA-PID-GRO, the complete plant food, enters the sap stream immediately through the leaves—and almost as quickly when fed at the base.

### SPRAY ALONG WITH INSECTICIDES

Spray RA-PID-GRO along with insecticides. It is instantly soluble, is compatible with most insecticides and fungicides, and will not damage your spray machines.

Results will amaze you—better growth, heavier trees, better color. 40% more first class stock. Think of it!

**THERE IS NO OTHER PLANT FOOD MADE LIKE**



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### A.-A. R. S. DISPLAY AT ROCKEFELLER CENTER.

Four new varieties of roses, the 1950 All-America Rose Selections, were displayed June 8 at Rockefeller Center's first exhibition of roses in the Channel Gardens, between Fifth avenue and the lower plaza, New York city. The varieties are Sutter's Gold, a golden-yellow hybrid tea rose; Fashion, a coral-pink floribunda, overlaid with gold; Mission Bells, a salmon hybrid tea rose, and Capistrano, a rose-pink hybrid tea rose. More than 1,000 rose plants of all varieties also were displayed. The exhibit continued throughout the month of June.

Ceremonies honoring the four new roses included addresses by Robert Pyle, West Grove, Pa., trustee of All-America Rose Selections, Inc.; Dr. Raymond C. Allen, executive secretary of the American Rose Society; G. S. Eysell, executive manager of Rockefeller Center, and Jinx Falkenburg, radio star. Models displayed gowns inspired by the four new roses.

### JOINS NO-WILT FIRM.

S. L. Hopperstead, who formerly was in charge of the development and introduction of agricultural chemicals for B. F. Goodrich Chemical Co., Cleveland, O., has joined the No-Wilt Plant Products Co., North Olmsted, as director of sales and development.

The latter firm, which recently moved its facilities to North Olmsted, manufactures Plantcote, a liquid plastic horticultural spray which prevents rapid moisture loss from plants to which it is applied.

### CORRECTION.

In the June 15 issue it was erroneously stated that William C. Salome, Jr., was associated with the Mount Hope Nurseries, Lawrence, Kan. He is associated with a firm of that name at Mount Hope, Kan. The Mount Hope Nurseries, at Lawrence, are an entirely different firm and are operated by W. S. Griesa.

CONSTRUCTED at a cost of \$15,000, the Holly Nurseries, recently opened on U. S. 31 near the city limits of Muskegon Heights, Mich., were designed by the owner, A. E. Smith, Muskegon. Mr. Smith, who has shrubbery farms in the Fremont area, entered the retailing phase of landscaping four years ago and continues to supply some wholesalers.





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## Fruit Varieties Survey

In the fruit varieties appraisal program being conducted by the American Pomological Society previous reports have showed present plantings and future trends in acreages of apple, peach, plum, cherry, grape and strawberry varieties. The results of the variety surveys on pear, raspberry, blackberry and blueberry have been completed and reported by John T. Bregger, chairman of the A. P. S. registration and appraisal committee.

### Pear Varieties.

With pears commercially grown in few sections of the United States, the greatest acreage is found in New York and Michigan. In Michigan Bartlett and Bosc predominate in the majority of new planting intentions, while Clairgeau, Douglas, Flemish Beauty and Lawrence are designated for almost complete discard; Seckel is on the discard list; Anjou is evenly divided between planting and discard; Clapp Favorite is planted somewhat, and Howell is planted only to a slight degree.

Seckel remains on the planting list in Ohio and Connecticut. Clapp Favorite is somewhat favored in Connecticut. Gorham, a relatively new variety, is listed evenly for planting and discard in Ohio.

In the middle west, where pears are confined largely to plantings in home orchards, Kieffer and Lincoln are favored above others, with Duchess showing the greatest decline. Evenly divided between planting and discard lists are Bartlett, Douglas, Garber and Seckel.

Pear growers in Washington reported Bartlett in twice as many bearing orchards as Anjou, but both were rated evenly for favor for future plantings. Unanimous discard was voted for Bosc and Winter Nelis.

### Red Raspberry Trend.

The most universal trend for any fruit surveyed by the American Pomological Society is shown for red raspberry varieties. Except in the Pacific northwest, where the new variety named Washington is preferred, Latham remains the one variety preferred for future planting. From Maryland, where it is estimated for ninety-nine per cent of the new acreage, through New Jersey, New England, the Great Lakes states and the middle west to Montana, Latham holds top place. Next to Latham there is some interest in planting

Taylor in Connecticut, Michigan and Wisconsin; Newburgh in Connecticut and Minnesota, and Indian Summer in Iowa and Montana. Also in the new planting list in Minnesota is the new variety Madawaska. Mainly mentioned for discard are Chief, Cuthbert, Marcy, King and Ranere (St. Regis). And Ohta is on the discard list in Iowa.

### Blueberry Survey.

The largest acreage of high-bush blueberries is in New Jersey and Michigan, with lesser acreage in Connecticut, Maryland and Ohio. Top varieties in the east are now Jersey, Rancocas, Concord, Rubel, Cabot, Stanley and Atlantic. Discard comes mainly in Cabot and Pioneer. New planting interest is evenly divided on Jersey, Burlington, Dixi, Pemberton, Stanley and Weymouth. Probably because of the late harvest

date, Rubel is on the discard list in Connecticut.

With one or two exceptions, much the same is true for Michigan and Ohio. In order of their frequency, present plants include Rubel, Pioneer, Stanley, Rancocas, Burlington, Cabot, Atlantic, Concord, Pemberton, June and Dixi. Most growers want to discard Pioneer and Rancocas. In new planting preferences, Jersey holds top place, followed by Stanley, Rubel, Burlington, Cabot, Atlantic, Dixi, Pemberton and Weymouth.

In scattered midwestern states, Jersey leads the list of varieties for new plantings, followed by Atlantic, Burlington, Cabot, Dixi, Rubel and Stanley. Mentioned for discard are Adams, Harding and Rancocas.

### Black Raspberry Varieties.

The trend for black raspberry varieties is more indefinite and growing is more limited than for red raspberries. New plantings, it appears, will be held to Cumberland

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L. O. Long, manager

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**Pine — Fir — Spruce** in variety. Also **Canada Hemlock** and **American Arborvitae**.

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**SPECIAL** price on several thousand landscape ornamentals if sold and removed this fall. No shipping on these larger sizes. If interested, come and see the stock. Phone Johnstown 53-521.

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ONE OF THE SOUTH'S LEADING NURSERIES FOR OVER SIXTY-THREE YEARS  
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COMING YEAR WITH FIRST-CLASS STOCK IN:

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## NUT TREES

Chinese Chestnuts  
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Hicoria, Shellbark and Shagbark

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Paradise  
Martha Washington

## RHUBARB

Victoria

## PRIVET

Amur River North  
Amur River South  
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SELBYVILLE, DELAWARE

and Logan, with Kansas and Plum Farmer on the discard list. Around the Great lakes Morrison is still being planted, but in Washington it is being discarded in favor of Cumberland.

#### Blackberry Survey.

Little interest was shown in the blackberry survey, so that results are brief. In the north, with Ohio used as a typical state, Eldorado holds chief planting interest, and Early Harvest and Mersereau are on the discard list in most sections. In Washington, Evergreen is now most heavily planted, but growers show a preference for Thornless Evergreen for future plantings. No intended plantings are reported for Himalaya and Eldorado.

CLARENCE O. SIEBENTHALER, president of the Siebenthaler Co., Dayton, O., left June 19 for a few weeks of fishing at Kilarney, Ont., Canada.

THE new nursery doing some wholesale but mostly retail business, started by Leslie Johnston, Route 3, Box 402, Miami 38, Fla., is developing a line of tropical trees and rarer fruits. Some experimental grafting also is being done.



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SHADE AND ORNAMENTAL TREES  
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## SMALL FRUIT PLANTS and VEGETABLE ROOTS

We would appreciate the opportunity of quoting on your requirements for the coming season and welcome your want lists.

GRAPEVINES	RED RASPBERRIES	BLACKBERRIES	STRAWBERRIES
1, 2 and 3-yr.-old	All Grades	1-yr. and 2-yr. trans.	Premier
Concord	Latham	Eldorado	Robinson
Niagara	Chief	Alfred	Dunlap
Fredonia	Sunrise	Early Harvest	Fairland
Catawba	Indian Summer		Temple
Delaware	St. Regis		Catskill
Van Buren			Gem
Caco	BLACK RASPBERRIES	BOYSENBERRY	Evermore, Minn. No. 1166
Seneca	Cumberland	1-yr. tips	Streamliner
Golden Muscat	Logan	Thorny	Superfection
Sheridan		Thornless	
CURRENTS	PURPLE RASPBERRIES	DEWBERRY	HORSE-RADISH
All Grades	1-yr. tips	1-yr. tips and trans.	Maliner Kren
Wilder	Sodus	Lucretia	Cuttings and Whole Roots
Red Lake			
GOOSEBERRIES	BLUEBERRIES	ASPARAGUS	RHUBARB
All Grades	1, 2, 3, 4 and 5-yr.	2 and 3-yr.	From 1/2-in. up to 2 ins.
Poorman	Rancocas	Mary Washington	Victoria
Downing	Rubel	Paradise	McDonald, Divisions
Houghton	Jersey		Canada Red, Divisions
Champion			

### SUPERFECTION STRAWBERRIES

Don't fail to list the new Superfection Strawberry for the coming season. It is the most productive fall berry that has ever been introduced. We anticipate a good supply for the coming season. Write for additional information and quotations.

### FRESH BLUEBERRIES

Shipped from July 15 to August 15 at \$5.00 per 16-pt. crate, express collect. Picked and packed from our own Blueberry Plantation.

A. W. (Dick) Krieger will be our representative at the San Francisco Convention, Badge No. 662, traveling on the Convention Special from Chicago, returning via the Northern Route.

**MAY WE OFFER**

Our thanks and appreciation for your valued patronage of the past.

**MAY WE EXTEND**

Our apologies if we failed to meet our standard of service of the past to you.

As you know, it was an unusual season. We sympathize with your gripes. We had them too, but business was good. We trust it was with you.

**MAY WE CONCLUDE**

By stating that advance buying at this date indicates a good business outlook for another season.

**Stock will be limited** on many varieties of evergreens both in lining-out and balled and burlapped material.

**Let's get together.** Write, phone or visit our nurseries or arrange a chat at the Convention with our Art Webster, the President of the New England Nurserymen's Association.

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Represented by E. D. Robinson, Sales Agent, Wallingford, Conn.

**CATALOGS RECEIVED.**

Doty & Doerner, Inc., Portland, Ore.—Wholesale descriptive price list of camellia lining-out stock; 4 pages, 8x11 inches.

F. J. Grootendorst & Sons, Boskoop, Holland—Wholesale descriptive price list of evergreens, deciduous trees and shrubs, fruit trees, vines, roses, peonies and perennials; 60 pages and cover, 6x9½ inches.

Griffing Nurseries, Beaumont, Tex.—Retail price list of evergreens, deciduous trees and shrubs, vines, grasses, fruit trees and supplies; 8 pages, 8½x11 inches.

Hagen Nursery, Arcadia, Calif.—Retail descriptive price list of deciduous, flowering, ornamental and fruit trees; 4 pages, 6x9½ inches.

McDonnell Nursery, Oakland, Calif.—Retail descriptive price list of annuals and perennials; illustrated in color; 8-page folder, 8½x11 inches.

O. L. DIXON, El Paso, Tex., is planting one and one-half acres in small fruit trees, ornamentals, shrubs, evergreens and roses. This fall he will build a small greenhouse in addition to his flat house.

THE RED BUD NURSERY has been started by Avah Etter, Mrs. Henry Paxton and Charles Cosgrove at the Paxton and Etter country home, Cement, Okla. Mr. Cosgrove formerly operated Charley Cosgrove Co., a nursery, at Oklahoma City, and has moved his entire stock to the site of the new firm.

**TAXUS**

Quality stock with J. B. certificate; in carload or truck-load lots.

**TAXUS capitata**, 2½ to 7 ft.

**TAXUS cuspidata**,  
1½ to 3½ ft.

**TAXUS nana** and  
**intermedia**, 1 to 3 ft.

**TAXUS hicksi** and **hatfieldi**,  
2 to 5 ft.

Also

**TAXUS liners**, 3 to 4 yrs.,  
1 to 2 ft.

**BULK'S NURSERIES, Inc.**

Babylon, L. I., N. Y.

**TREE PEONIES**

Sensational offering—finest top ranking Japanese, European and lutea hybrids. 6-year, also 2-year stock, for fall delivery.

**LOUIS SMIRNOW**

6 HARTLEY RD., GREAT NECK, N. Y.

**KELLY BROTHERS  
NURSERIES, Inc.**

"Fruit Tree Headquarters"

DANSVILLE, NEW YORK

★

**APPLE PEACH**  
**SWEET AND SOUR CHERRY**  
**PLUM QUINCE PEAR**

We offer a complete assortment of high-quality fruit trees.

★

Send your list of wants, or better yet, come to Dansville and see our nursery.

Send for our latest wholesale list.

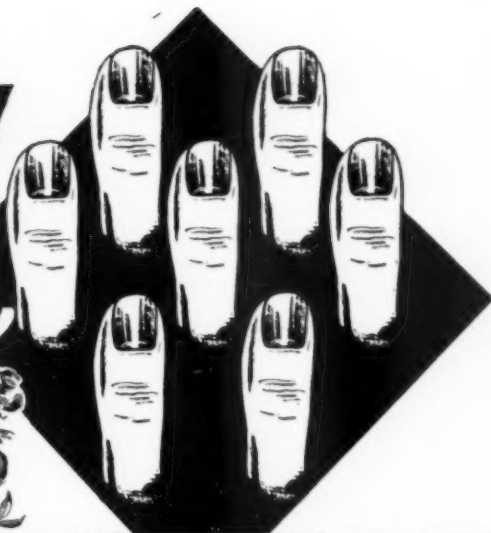
Represented by

WM. F. KELLY  
JOHN W. KELLY  
WM. F. KELLY, JR.

★

1880—1949

# "GREEN THUMBS"



*for Every*

*Customer*

WITH  
**CLOVERSET POTS**

See the CLOVERSET  
**COLOR MOVIES**

at the CONVENTION  
in SAN FRANCISCO

JULY 17 to 21

BOOTH No. T-12

Cloverset Pots assure greater growing success for every one of your customers . . . a "Green Thumb," if you please, for every gardener, beginner or experienced. You'll see the entire story in our new color movie showing potting operations, cold frame growing, salesyard selling and merchandising.

We'll be in our Booth to greet you and answer your questions.

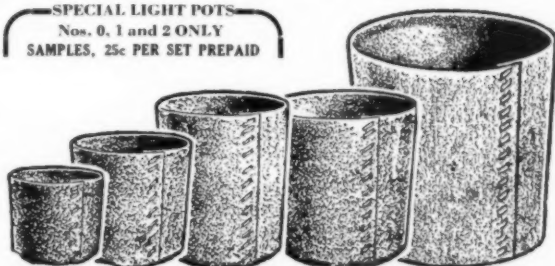
Kenneth Haysler  
Margaret Haysler

## STANDARD HEAVY POTS

SAMPLES 25¢ FOR Nos. 1, 2 and 3. 25¢ FOR No. 4.  
SET OF SAMPLES — ALL SIZES AND WEIGHTS, 50¢ PREPAID

## SPECIAL LIGHT POTS

Nos. 0, 1 and 2 ONLY  
SAMPLES, 25¢ PER SET PREPAID



No. 0  
For  
perennials  
and  
green-  
house.

No. 1  
For  
perennials  
and  
MUMS.

No. 2  
For roses  
and  
shrubs.

No. 3  
For large  
shrubs and  
transplanting.

No. 4  
For large shrubs,  
fruit trees,  
evergreens.

Write for Complete Details,  
Prices, Specifications and  
Samples.

Practical Nurserymen  
for 26 Years

**FREE  
BOOKLET**

Tells How to Sell  
Plants in Pots  
for Profits.

**CLOVERSET  
FLOWER FARM**

ERNEST HAYSLE & SON

105th Street and Broadway, Kansas City 5, Mo.



# Coming Events

## MEETING CALENDAR.

July 17 to 21, American Association of Nurserymen, Fairmont hotel, San Francisco, Calif.

July 17, Ornamental Growers' Association, Fairmont hotel, San Francisco, Calif.

July 17, Wholesale Fruit Tree Growers' Association, Fairmont hotel, San Francisco, Calif.

July 17, Association of Nursery Association Secretaries, Fairmont hotel, San Francisco, Calif.

July 18, All-America Rose Selections, Inc., Fairmont hotel, San Francisco, Calif.

July 19, Retail Nurserymen's Association of the United States, Fairmont hotel, San Francisco, Calif.

July 19, National Association of Plant Patent Owners, Fairmont hotel, San Francisco, Calif.

July 19, National Landscape Nurserymen's Association, Fairmont hotel, San Francisco, Calif.

August 8 and 9, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago, Ill.

August 9 and 10, Oklahoma State Nurserymen's Association, Willow Springs lodge, Lake Texhoma.

August 10, Pennsylvania Nurserymen's Association, B. F. Barr Nurseries, Lancaster.

August 11 and 12, New York State Nurserymen's Association, New York agricultural experiment station, Geneva, and Cornell University, Ithaca.

August 11 and 12, Michigan Association of Nurserymen, Winona hotel, Bay City, Mich.

August 11 and 12, Washington State Nurserymen's Association, Seattle.

August 11 and 12, Indiana Association of Nurserymen, Morton Arboretum, Lisle, Ill.

August 18, Connecticut Nurserymen's Association, C. R. Burr & Co., Inc., Manchester.

August 19 and 20, West Virginia Nurserymen's Association, Tygart hotel, Elkins.

August 22 to 24, Texas Association of Nurserymen, Driskill hotel, Austin.

August 22 to 26, National Shade Tree Conference, Lord Baltimore hotel, Baltimore, Md.

August 24 to 26, Southern Nurserymen's Association, Hotel Patten, Chattanooga, Tenn.

August 28 to 30, Virginia Nurserymen's Association, Bristol.

August 30 and 31, Ohio Nurserymen's Association, Cole Nursery Co., Painesville.

September 6 to 8, Northern Nut Growers' Association, plant industry station, United States Department of Agriculture, Beltsville, Md.

September 8 and 9, Kansas Association of Nurserymen, Topeka.

September 13 to 15, California Association of Nurserymen, Hotel Miramont, Santa Barbara.

September 15, Western New York Nurserymen's Association, Buffalo Automobile Club, Buffalo.

September 30 to October 2, Texas rose festival, Tyler.

## NEW YORK STATE DATES.

The annual business meeting and summer outing of the New York

State Nurserymen's Association will be held August 11 and 12 at Geneva and Ithaca, where nurserymen will inspect work being done on important nursery problems at the state agricultural experiment station and at Cornell University.

## WESTERN NEW YORK PLANS.

Members of the Western New York Nurserymen's Association located in the vicinity of Buffalo will be host to the summer meeting of the association, which will be held September 15 at the Buffalo Automobile Club.

## MICHIGAN DATES.

The summer meeting of the Michigan Association of Nurserymen will be held August 11 and 12 at the Winona hotel, Bay City, Bernard Ward, secretary-treasurer, has announced. Members of the Saginaw

Valley Nurserymen's Association group will be hosts.

## PENNSYLVANIA DATE SET.

August 10 is the date set for the summer meeting of the Pennsylvania Nurserymen's Association to be held at B. F. Barr Nurseries, Lancaster. The one-day meeting will begin at about 9:30 a. m.

Arrangements are being made with the Brunswick hotel, Lancaster, for the reservation of a limited number of rooms for members, and Albert F. Meehan, Thomas B. Meehan Co., Dresher, secretary-treasurer, has requested nonmembers who plan to stay overnight at the hotel to mention that they are coming to the meeting.

## OKLAHOMA OUTING SET.

The summer meeting of the Oklahoma State Nurserymen's Association will be an outing August 9 and 10 at Lake Texhoma, with headquarters at Willow Springs lodge. War-

## NURSERYMEN! IN 1949-50 FLY YOUR MERCHANDISE AT THESE LOW RATES

100 lbs. FROM LOS ANGELES TO:

Kansas City	.....\$8.10	Chicago	.....\$8.60
Detroit	.....9.80	Cleveland	.....9.90
New York	.....\$11.90		

Call our representative in above cities.  
Direct service and low rates also available  
from San Francisco and San Diego.  
Temperature-controlled, 4-engined planes.

**NO FREEZING!—NO BURNING!—NO OVERHEATING!**  
**SAVE MONEY**—No costly heavy packing.  
**SAVE TIME**—Hours, not days in transit.  
**SAVE MERCHANDISE**—Delivered in A-1 condition.

Fast overnight transfer to off-line points.

Our Representative will be at the San Francisco Convention.

*The Flying Tiger Line*

AIR FREIGHT—WORLDWIDE

Lockheed Air Terminal • Head Office **BURBANK, CALIF.** • Phone: Stanley 7-3411

READY FOR PRESEASON INSPECTION

Our Larger Landscape Sizes Of

**EVERGREENS**

*The Berryhill Nursery Co.*



EVERGREENS ORNAMENTALS

FOUR MILES NORTHEAST OF SPRINGFIELD, OHIO  
STATE ROUTE FOUR P. O. BOX 696



# QUICK SELLER FOR PROFIT



**SPECIAL**  
*For Fall and Spring Delivery*  
**REGAL LILIES**  
*Grown Exclusively for us*  
**REDUCED PRICES**

F.O.B. CHICAGO or NEW YORK

	Per 1000		Per 1000
4 to 5 ins.....	\$ 45.00	8 to 9 ins.....	\$130.00
5 to 6 ins.....	60.00	9 to 10 ins.....	175.00
6 to 7 ins.....	75.00	10 to 11 ins.....	240.00
7 to 8 ins.....	100.00	11 to 12 ins.....	325.00

WRITE FOR QUANTITY PRICES

(Prices subject to change.)

## WE CARRY A COMPLETE LINE OF BULBS

- For your planting.
- For your catalog list.
- For your counter trade.
- For your agency line.

TULIPS — HYACINTHS — NARCISSI — CROCUSES — LILIES — IRISES  
GLADIOLI — BEGONIAS — CALADIUMS — TUBEROSES — GLOXINIAS  
CANNAS — ANEMONES — RANUNCULI — AMARYLLISES — FREESIAS

## AMERICAN BULB CO.

1335 W. RANDOLPH ST.  
CHICAGO 7, ILL.

31 W. 27th ST.  
NEW YORK 1, N. Y.

## TO OUR FRIENDS AND CUSTOMERS

# GREETINGS

We are offering our usual line of **Roses**, standard varieties and the best of the patented sorts; **Flowering Shrubs** in quantity and most popular varieties, **Hedge Plants**, **Shade Trees** and a good assortment of **Fruit Trees**. Our quantity production permits favorable prices on many items.

We are always glad to show our stock and to quote on your list of wants.

**The HUNTSVILLE WHOLESALE NURSERIES, Inc.**  
HUNTSVILLE, ALABAMA

ren Welch, president, states that cabins will be available at the lake, or if members prefer to camp out, space will be available to those who supply their own camping equipment. Reservations may be made by writing to Jack Foote, Durant Nursery Co., Durant.

The first day will be devoted to a picnic at Willow Springs lodge, and motorboat rides will be given nurserymen and their guests by the businessmen of Durant.

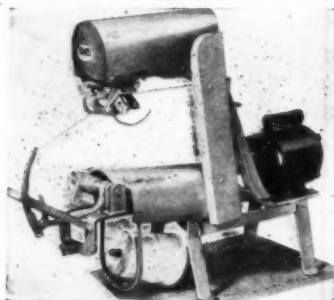
Breakfast will be served in the lodge dining room at 8 a. m. the following morning, and the business meeting will start at 10 o'clock. Guest speakers are to be announced at a later date. The afternoon will be free for fishing, swimming and other recreational activities.

### MAIL ORDER NURSERYMEN PLAN CHICAGO MEETING.

The annual meeting of the National Mail Order Nurserymen's Association, Inc., will be held August 8 and 9 at the Hotel La Salle, Chicago. All the sessions will be held in the hotel's Lincoln room, except a luncheon on Monday, which will be in the Chicago room. Guest speaker for the luncheon will be J. H. Slingerland, Chicago, specialist in nursery

### FELINS PAK-TYER

Heavy-Duty Nursery Tying Machine



1949 Rotary Model  
**BUNCH TYER**

See these at A. A. N.  
Convention July 17 to 21.  
**Booth H-7**  
Fairmont Hotel, San Francisco, Calif.

**FELINS** TYING MACHINE CO.  
2950 North 14th Street • Milwaukee, Wis.

### Old English BOXWOOD

(Wholesale Only)

**SELLING OUT.** Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

**BOXWOOD GARDENS**

Mrs. R. P. Royer

High Point, N. C.

### SHEPARD NURSERIES

Growers and Distributors of

**ORNAMENTAL NURSERY STOCK**

60 acres growing,

Skaneateles, N. Y.

# SPECIAL OFFER

TO THE FLORIST and NURSERY TRADE

Limited Quantity, BRAND-NEW★

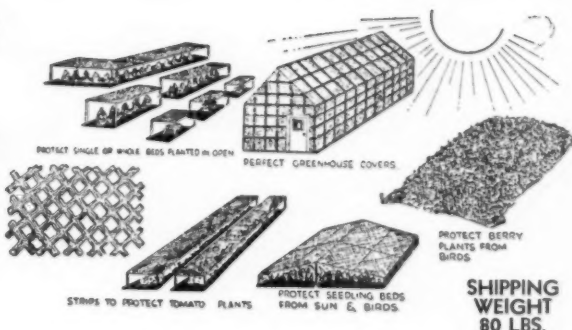
## "SUN-SHADE" NETS

BIG, 36x44 ft. or 1,584 Sq. ft. of  
Perfect Shading Material!

GOVERNMENT COST  
APPROXIMATELY  
\$100.00

YOURS FOR ONLY

**14<sup>75</sup>**  
F. O. B.  
Austin, Texas,  
or  
Oakland, Calif.



SHIPPING  
WEIGHT  
80 LBS.

Less than 1c per Sq. Ft.

- ★ Prevent Plant, Shrub, Seedling Loss . . .
- ★ Greatly Increase Your Profits . . .

WITH THESE PERFECT "SUN-SHADE" NETS!

### ★ Check All These Features ★

- ★ "Sun-Shade" nets are **LIGHT**—easy to spread above your plants for **COMPLETE** protection from the hot, scorching sun.
- ★ "Sun-Shade" nets are **durable**—made of closely knit, waterproof cotton fabric and treated with a preservative to prevent mildew and rot. Flame-resistant. Will give lasting service for many seasons!
- ★ "Sun-Shade" nets may be cut to any size or shape to fit your particular needs—edges will not fray or ravel!
- ★ "Sun-Shade" Nets Are Versatile. Use Them for Several Jobs.
  - As a protective cover over your plants and shrubs growing in the open.
  - As a perfect greenhouse cover — replaces costly lime covering and cleaning process. Easily removed for **FULL** winter exposure!
  - To shade seedling beds, and protect them from birds.
  - Spread over berry-bearing bushes for protection from birds.

These brand-new "Sun-Shade" nets are available in two sizes for your convenience. Big, 36x44 ft. or 1,584 square ft. for only \$14.75 each—shipping weight, 80 lbs. And 29x29 ft., or 841 square ft. for only \$7.95 each—shipping weight, 48 lbs. Immediate delivery assured if you **ORDER NOW**.

**DON'T DELAY!**

**ORDER YOUR "SUN-SHADE" NETS TODAY!**

**G. I. SURPLUS DISTRIBUTING CO.**

P. O. Box 943

AUSTIN, TEXAS

### "SUN-SHADE" NETS ARE GUARANTEED!

- ★ "Sun-Shade" nets sold from this ad are guaranteed to be **BRAND-NEW!** Guaranteed to give 60% shade! Money-back guarantee.

### Attention Nurserymen!

Be sure to visit our "Sun-Shade" net display in Exhibit booth H-8 at the 74th annual convention at San Francisco, July 17 to 21.

### Attention Florists!

See "Sun-Shade" nets displayed at the Muehlebach Hotel, Kansas City, Mo., during the 65th annual S.A.F. convention July 31 to August 3.

See why "Sun-Shade" nets will fill **ALL** your shading needs **BETTER**, at **FAR LESS EXPENSE**, than **ANY OTHER** artificial shading material!

### INITIAL RESPONSE TERRIFIC!

When we first advertised these government surplus "Sun-Shade" nets several weeks ago, the response was overwhelming. Florists and nurserymen the country over swamped us with orders and reorders, and our limited supply was soon exhausted. After an extensive search throughout the nation, we finally located a very limited quantity of **BRAND-NEW "Sun-Shade"** nets—in two convenient sizes! We urge you to **ORDER NOW** while we can assure immediate delivery.

Use This Handy Order Blank Now!

**G. I. SURPLUS DISTRIBUTING CO.**  
P.O. Box 943 Austin, Texas

Please Ship Immediately:

.....36'x44' New "Sun-Shade" Nets @ \$14.75  
.....29'x29' New "Sun-Shade" Nets @ 7.95

☐ F.O.B. Austin, Tex. ☐ F.O.B. Oakland, Cal.  
☐ CASH ☐ M. O. ☐ C.O.D.

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ADDRESS.....

CITY, STATE.....



# SAFE! For Summer Planting

## Immediate Shipment

**ROOTED CUTTINGS**—Transplanted in sand and peat moss. Excellent roots, strong tops. \$6.50 per 100, \$70.00 per 1000. 300 take 1000 rate.

*Ilex cr. latifolia*  
*Taxus cuspidata*  
*Taxus cusp. brevifolia*  
*Taxus cusp. intermedia*  
*Taxus cusp. Vermeulen*

*Taxus media hatfieldi*  
*Taxus media hicksi*  
*Taxus media kelseyi*  
*Thuja occ. globosa novum* (350)  
*Thuja occ. pyramidalis* (900)

Each 25 to 299  
 Each 300 and up

**POTTED STOCK**—Well established.

<i>Acer pal. Burgundy</i> lace, gr., 2 1/4-in. pot	\$1.00	
<i>Hamamelis mollis</i> and <i>jap.</i> , red, gr., 2 1/4-in. pot	.45	
<i>Hamamelis mollis</i> and <i>jap.</i> , red, 1-yr. gr., 3-in. pot	.60	
<i>Hamamelis jap.</i> , yellow, 1-yr. gr., 3-in. pot	.60	
<i>Ilex crenata latifolia</i> , 1-yr., 2 1/4-in. pot, 8 to 10 ins.	.10	
<i>Ilex crenata latifolia</i> , 2-yr., 3-in. pot, 10 to 15 ins.	.18	
<i>Ilex opaca pyramidalis</i> , hardy, berry-bearing type, 2 1/4-in. pot	.20	
<i>Taxus cusp. capitata</i> , 1-yr., 2 1/4-in. pot, 8 to 10 ins.	.18	\$0.15
<i>Taxus cusp. capitata</i> , 1-yr., 2 1/4-in. pot, 10 to 12 ins.	.20	.17

**TRANSPLANTS**—Heeled in, safe to handle.

<i>Ret. plumosa</i> , r/c, 6 to 8 ins.	.06	
<i>Ret. plumosa</i> , 3-yr., XX, 10 to 15 ins.	.20	
<i>Ret. plumosa aurea</i> , r/c, 6 to 8 ins.	.06	.05
<i>Ret. plumosa aurea</i> , 3-yr., XX, 8 to 12 ins.	.20	
<i>Taxus cuspidata</i> , 2-yr., XX, 6 to 8 ins.	.14	.13
<i>Taxus cusp. brevifolia</i> , 1-yr., X, 6 to 8 ins.	.10	
<i>Taxus cusp. Vermeulen</i> , 1-yr., X, 8 to 10 ins.	.15	
<i>Taxus cusp. Vermeulen</i> , 2-yr., XX, 8 to 10 ins.	.20	
<i>Taxus cusp. Vermeulen</i> , 2-yr., XX, 10 to 12 ins.	.22	
<i>Taxus cusp. Vermeulen</i> , 3-yr., XX, 10 to 12 ins.	.25	
<i>Taxus media</i> , 2-yr., XX, 6 to 10 ins.	.11	.10
<i>Taxus media hicksi</i> , 1-yr., X, 6 to 8 ins.	.10	.09 1/2

**NEW, TALL, NARROW, HARDY TYPES**—Many uses, beautiful to see. Ask for descriptive list.

*Taxus media grandifolia*—bigleaf yew (no cuttings)  
*Taxus media pilaris*—pillar yew  
*Taxus media pyramidalis*—pyramid yew  
*Taxus media robusta*—obelisk yew  
*Taxus media stricta*—narrowbush yew  
*Taxus media veridia*—grass-green yew

	Each 25 to 99	Each 100 and up
r/c transplanted in sand and peat	.10	.08
1-yr., 2 1/4-in. pot	.18	.15
3-yr., XX, 9 to 12 ins.	.50	.35
3-yr., XX, 12 to 15 ins.	.65	.50

**TERMS:** Cash with order or 50% cash with remainder C.O.D. Packing at cost on all orders. J.B. cert. furnished.

### JOHN VERMEULEN & SON, Inc.

WESTBURY, L. I., N. Y.

Propagators of quality lining-out stock since 1921



advertising and former advertising manager of the nursery division, Montgomery Ward & Co.

Registration will be held from 8 to 9 a. m. Monday, and an all-day program will follow. On Tuesday morning the meeting will reconvene and will adjourn at about noon.

A good representation from the more than 100 members throughout the country is expected, according to M. Vaughan Woodard, Neosho Nurseries Co., Neosho, Mo., secretary-treasurer.

### CONNECTICUT EVENTS.

The summer meeting of the Connecticut Nurserymen's Association will be held August 18, in cooperation with the New England Nurserymen's Association, at the warehouse of C. R. Burr & Co., Manchester, Conn., with Charles S. Burr and Louis Vanderbrook as joint hosts.

Eight days later, August 26, will be held a field day at the Connecticut agricultural experiment station farm, at Mount Carmel. When it was found impractical to arrange a nurserymen's school this year, the association arranged with the station's staff to stage a field day. The station staff will have charge of the morning program and will discuss the newer things in production and in pest control. In the afternoon, 10-minute talks will be made by nurserymen in various branches of the business, followed by discussion periods.

### WASHINGTON PROGRAM.

A joint meeting of the Washington State Nurserymen's Association and the Washington chapter of the American Association of Nurserymen will be held August 11 and 12 at Seattle.

Registration will begin at 8 a. m. August 11. A welcome by Frank J. Stanek, Spokane, president, will be followed by committee reports and the nomination of officers.

Dr. John Hanley will preside over a panel discussion on methods of licensing nurserymen. After luncheon the nurserymen will tour Volunteer park with a guide showing points of interest.

At dinner, at 6:30 p. m. at the Commons, Nathaniel Engle will speak on "Economic Trends."

August 12 most of the morning session will be devoted to a business meeting, to include election of officers, selection of date and place for the midwinter meeting, appointment of new committee chairmen and presentation of designs for a state membership sign.

A speaker from the University of

QUALITY MERCHANDISE  
AT REASONABLE PRICES

C. L. VANDERBROOK & SON  
MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

We specialize in  
East Malling IX  
Dwarf Fruit Stock

VAN HOF NURSERIES  
BRISTOL FERRY RD.  
PORTSMOUTH, R. I.

**ELIMINATE  
THESE COSTS**

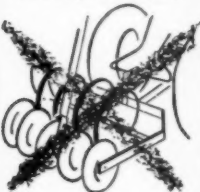
**SAVE \$200**

**WHY PAY MORE**

**FOR A TRACTOR ONLY  
-PLUS ATTACHMENTS?**

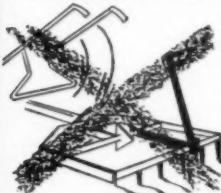
**1. PLOW**

This attachment, required with ordinary tractor, costs \$35.00. Seidelhuber rotary tiller requires no plow.



**2. DISC**

This attachment not required with a Seidelhuber rotary tiller, but with other machines costs about \$40.00 extra.



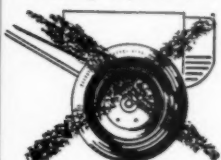
**3. HARROW**

Not required, Seidelhuber rotary tiller plows, discs, harrows and cultivates—all in ONE operation. With other machines, about \$30.



**4. CULTIVATOR**

Absolutely required with other machines; completely unnecessary with scientific Seidelhuber rotary tiller. A saving to you of \$30!



**5. WHEELS  
& TIRES**

No wheels, tires, tubes required. You save \$27.50.

THE LOW-COST ALL-PURPOSE GARDENER

SINCE 1906

**SEIDELHUBER**

SEATTLE, WASH.

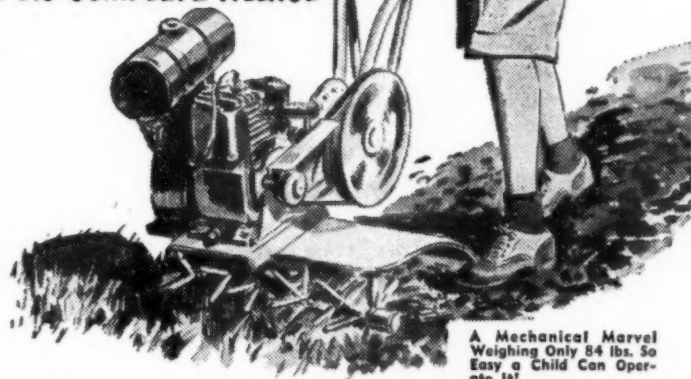
4-IN-1



ROTARY

**POWER TILLER**

*Includes Everything  
FOR COMPLETE TILLAGE*



A Mechanical Marvel  
Weighing Only 84 lbs. So  
Easy a Child Can Oper-  
ate It!

**Why Pay Big Extra Prices  
For Attachments?**

WHY plague yourself with extra TIME, TROUBLE and LABOR involved in CHANGING attachments for each operation?

These are NOT NEEDED with the sensationally superior SEIDELHUBER 4-in-one rotary TILLER . . . "Champion of the Field—For Richer Yield." It does FOUR tillage operations at once!

Costs Much Less to Buy . . .  
Much Less to Operate!

**PLOWS·DISCS·HARROWS·CULTIVATES**  
*-all in one easy operation!*

If your nearest dealer hasn't yet prepared to serve you  
with demonstration and free literature, mail coupon NOW.

**COMPLETE**  
NO WHEELS, TIRES, OR  
ATTACHMENTS REQUIRED

**\$197<sup>50</sup>**

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ANY TOWN  
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"CHAMPION OF THE FIELD"

**SEIDELHUBER IRON AND BRONZE WORKS, Inc.**

Quality Manufacturers Since 1906

1421 Dearborn St. Seattle 44, Wash.



## WE SPECIALIZE IN LINING-OUT STOCK

Our thanks to all our customers for the business you favored us with the past season. Sorry we had to disappoint some of our friends on late orders.

We look forward to serving you again this coming fall and spring.

**HESS' NURSERIES**  
MOUNTAIN VIEW, NEW JERSEY

Washington will discuss the university's program for future advancement in fields related to the horticultural industry. Following a luncheon at the Commons, Burton J. Wheelan, eminent Seattle attorney, will speak on "What the Customer Expects from the Nurseryman."

In the afternoon will be held a business meeting of the Washington chapter of the A. A. N., with President Frances Roberson, Seattle, presiding.

A dinner at the Commons will be followed by a talk on "Methods of Merchandising," by a speaker from the Seattle chamber of commerce, and by color films on horticultural subjects.

### NUT GROWERS SET DATES.

September 6 to 8 are the dates set for the meeting of the Northern Nut Growers' Association, to be held at the plant industry station of the United States Department of Agriculture, Beltsville, Md., J. C. McDaniel, Nashville, Tenn., secretary, has just announced.

### SHADE TREE GROUP PLANS.

The twenty-fifth annual convention of the National Shade Tree Con-

## GENERAL LINE of ORNAMENTALS LINERS and FINISHED MATERIALS

### ORIGINATORS OF JUNIPERUS GLAUCA HETZI

Some of our salable counts as follows:

Fall, 1949, and Spring, 1950

- 30,000 **Upright Yew**, 18 to 48 ins.
- 15,000 **Spreading Yew**, 15 to 30 ins.
- 4,000 **Rhododendron Hybrids**, 18 to 30 ins.
- 3,000 **Azalea Hybrids**, 18 to 30 ins.
- 2,000 **Magnolia Soulangeana**, 24 to 48 ins.
- 500,000 **Red-leaved Barberry** 6 to 30 ins.
- 50,000 **Chinese Chestnut**, 6 to 24 ins.

### FAIRVIEW EVERGREEN NURSERIES

Fairview, Erie County, Pa.

### TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

**VERKADE'S NURSERIES**

NEW LONDON, CONN.

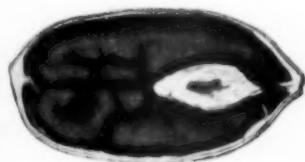
*Fashion Rose*  
PAT. 789

# ROSES of DISTINCTION

Unexcelled Refrigerated  
Rose Storage Facility.



**ARS** **ALL AMERICA**  
Highlight of the Nursery Catalog!



Stuart



Success

## ADVERTISE and PLANT PRODUCTIVE TREES!

*Pecans*

Improved Grafted  
Varieties and Sturdy  
Seedling Trees

BLACK and ENGLISH WALNUT  
FIGS, PERSIMMON

"ARP-Grown" Means "Better-Rooted"—Come to the Source

\*Licensed Field Production by:

**ARP Nursery Co.** **WHOLESALE GROWER**  
**P. O. Box 876 TYLER, TEXAS**

Member: Texas Rose Research Foundation, Inc.



# Armstrong

The Only  
All-America Winners  
For 1949

**Tallyho.** A spectacular bicolor—pink with cardinal-red reverse. Richly fragrant and extremely vigorous.

**Forty-niner.** The most brilliant bicolor—a striking combination of vivid red and straw-yellow.



**Forty-niner.** The fastest selling rose in 1949.



**Tallyho.** A top notch performer the country over.

## The Queen of AARS Winners

**Charlotte Armstrong.** With its long streamlined buds of blood red, the beautiful big cerise blooms, and its fine garden performance, this is a top favorite of the country.

**Charlotte Armstrong.** Has won every important award for new roses.



*Increase Your Sales*

**Armstrong  
Nurseries**

ONTARIO, CALIFORNIA

# Roses

## And Again For 1950 SUTTER'S GOLD

★All-America Winner for 1950

★Bagatelle Gold Medal Winner

The first rose ever to have won both the top national and international honors—an All-America Award for 1950 and the Foreign Gold Medal of the famous Bagatelle Trials in Paris. Sutter's Gold features long-pointed bright yellow buds richly shaded with orange and red, long lasting flowers with a fragrance unequalled in any other yellow rose, and a strong vigorous plant.

Sutter's Gold. Honors the  
100th anniversary of Cali-  
fornia's Statehood.

### *The World's Finest Roses From Sunny California*

Nowhere are conditions more favorable for the growing of fine roses than in the sun-drenched Chino Valley of Southern California. The care with which Armstrong plants are grown, together with the longer growing season make for bigger huskier plants giving greater customer satisfaction. New modern refrigerated storage assures delivery to eastern dealers in perfect condition.

### **Order Plants For Spring Sales Now**

Wholesale quantities of Armstrong Roses will be limited so write for your wholesale list today—and **get yours ordered early.**

### **See Us In San Francisco**

Talk over your rose needs with us at the Convention.





# Peace

THE MOST  
IMPORTANT NEW ROSE  
OF OUR TIMES

Mme. A. Meilland  
Plant Pat. 591



**Peace** is the fastest-selling Rose known to our 50 years in the Rose business.

## Sales



The bar graph above shows the constant, healthy increase in sales of **Peace** in the United States each season since its introduction. Note the increase of sales each year over that of the first year—remarkable increases of 70%, 145%, and 205%.

Every plant of **Peace** sold is a salesman for more, for the following year.

**Peace** has been an early sell-out every year. Demand has far exceeded the supply, despite a constant increase in the number grown each year. Dealers, place orders with your grower early and plan to feature this popular, money-making Rose.

We furnish color electrotypes of **Peace** to your printer without charge. Write for sample color plates.

Winner of the New National Gold Medal of the American Rose Society, illustrated at top of page.

## OTHER CONARD-PYLE ROSES ARE IMPORTANT TO YOU

Ask Your Dealer About the Following Highly Rated, Fast Selling Kinds:

- |                          |                                       |                              |                             |
|--------------------------|---------------------------------------|------------------------------|-----------------------------|
| Angels Mateu. Pat. 174   | Golden Anniversary. P. 806            | ★ Horace McFarland. Pat. 730 | CI. Mme. H. Guillot. P. 783 |
| Anna Marie. Pat. Pend.   | Good News. Pat. 426                   | ★ Lowell Thomas. Pat. 595    | ★ Peace. Pat. 591           |
| Blanche Mallerin. P. 594 | ★ Grande Duchesse Charlotte. Pat. 774 | Mme. Cochet-Cochet. Pat. 129 | CI. Peace. Pat. Pend.       |
| ★ Fred Edmunds. Pat. 731 |                                       | Mme. Henri Guillot. Pat. 337 | Ramon Bach. Pat. 366        |

See our Representatives at the convention.

# THE CONARD-PYLE CO.

Robert Pyle, President

WEST GROVE, PA.

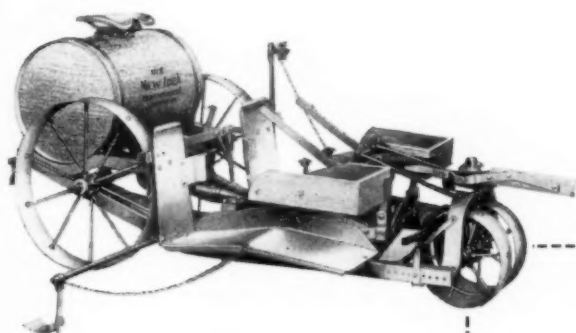
# NEW IDEA transplanters



## save time and labor — produce better crops

With the NEW IDEA Transplanter, a crew of three easily sets as many plants per day as *sixteen* hand workers. The transplants are evenly spaced at correct depth, with roots properly spread and watered.

The soil is uniformly firmed and mulched around them, the fertilizer correctly placed. Crops set out the NEW IDEA way take hold faster and grow more vigorously—mature earlier and yield better.



Comfortable, safe, convenient. Pulled by either team or tractor. Handles tomatoes, tobacco, cabbage, peppers, sweet potatoes, strawberries and all similar transplantable crops. Fertilizer attachment available. Ask your NEW IDEA dealer about this modern labor-saving machine, or mail coupon below.



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# CALIFORNIA PRIVET

2-yr., in grades, well grown stock.

## ARBORVITAE • JUNIPERS • YEWS

(These items available, but limited in some sizes.)

### Good assortment in SHRUBBERY and SHADE TREES

New wholesale trade list ready for mails September 1.

## THE WESTMINSTER NURSERIES

Westminster, Maryland

ference will be held August 22 to 26 at the Lord Baltimore hotel, Baltimore, Md., L. C. Chadwick, secretary-treasurer, has just announced.

H. S. Clopper and H. S. Clopper, Jr., Baltimore, are general chairmen of the committees for the convention.

### SPRAYS FOR SCALES.

Scale insects trouble the average nurseryman probably more than almost any other type of pest. Scales of various kinds infect evergreens, while oyster-shell and San Jose scales are the most common on deciduous trees and shrubs. Other scales may occur on those plants, but probably do not do so much as the two named. They feed on a wide range of host plants. Most fruit trees are subject to infestations, as are a number of common shrubs and a few trees.

Paul Ulman, head of Indiana state nursery inspection, gives timely advice on these pests in the recent bulletin of the Indiana Association of Nurserymen. A dormant oil spray for oyster-shell scale and either oil or liquid lime sulphur for San Jose scale have been the standard insecticides for controlling these pests, he states, and they are still good controls if applied thoroughly.

The nurseryman who fails to apply

## E. A. McILHENNY

AVERY ISLAND, LOUISIANA

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### "PLANTS FOR THE SOUTH"

Specialist in

### CAMELLIAS, BAMBOO and LANDSCAPE PLANTS

Available: Rare Camellia Books

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### MONOGRAPH OF THE GENUS CAMELLIA

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## E. A. McILHENNY

AVERY ISLAND, LOUISIANA

## HEMLOCK

Rhododendron — Kalmia

Azalea

CURTIS NURSERIES

CALICOON, N. Y.

## EVERGREENS FOR FALL

Biota aurea nana, compacta, excelsa, bakeri.

Juniperus hibernica, hib. fastigiata.

Some Pines, Spruce and Taxus. Truck or carloads.

FIKE NURSERIES, HOPKINSVILLE, KY.

**LINE UP EXTRA SALES  
and EXTRA PROFITS  
with the CHAMPION LINE  
of QUALITY DUSTERS  
and SPRAYERS**



**CHAMPION  
DOUBLE-ACTION DUSTER**

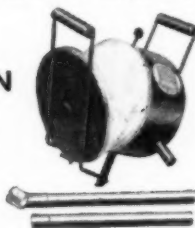
Tops in efficiency, effective dusting, ease of operation, all-around performance. Double action means continuous flow of powder whenever lever is operated . . . saves time, saves labor. All working parts fully enclosed; lead coated tank; big 10-inch hopper opening makes the Champion easy to fill and clean. Weighs 14 lbs. empty; holds 15 lbs. of powder.



**CHAMPION  
KNAPSACK  
SPOT  
DUSTER**

This is the big-value, long-life duster. Carried like a knapsack; easy to reach under low plants or shoot a blast of powder 30 ft. high. Ideal for spot dusting. Weighs 15 lbs. empty; holds up to 25 lbs. of powder.

**CHAMPION  
HAND  
DUSTER**



Noted for its simplicity of design and easy operation . . . ideal for home and small estate gardens, experimental and show gardens. All parts enclosed; no moisture can get in to clog powder; easily adjusted from fine fog to heavy cloud. Weighs 5 lbs. empty.



**CHAMPION KNAPSACK SPRAYER**

This all-purpose, all-brass sprayer is the product of a quarter century of scientific development. Uniform pressure of 200 lbs. in the sturdy pressure chamber is pumped as needed. Hands and arms are free for other work. Weighs 14 lbs. empty; holds 4  $\frac{1}{4}$  gals.



**WEED CONTROL  
BOOM**

Boom 89 makes Champion Sprayer effective for weed control. Two Tee-jet nozzles spray 35" path wherever operator can walk. Uses only 4 gals. solution per acre.

HERE are practical products backed by over 30 years' experience in design and manufacture . . . proved by trouble-free performance of many thousands in daily use . . . now ready to make extra sales, extra profits for you.



**CHAMPION  
KNAPSACK  
SLIDE SPRAYER**

A portable slide sprayer of big capacity, high power and simple operation at modest cost. Sprays any kind of solution . . . ideal as extra sprayer for weed killers, disinfectants, whitewash, water paints. Weighs 12 lbs. empty.

**FREE MATERIAL  
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Write for complete literature as well as material available without charge for use in your 1949 catalog . . . free cuts and copy service.

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*Mail Now for Complete Details*

Please send me without obligation free literature and prices on  
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We are interested ( ) As possible user ( ) In re-selling

Firm \_\_\_\_\_ Signed \_\_\_\_\_

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# CONSULT US FIRST FOR OUT-OF-THE-ORDINARY PLANTS

Over 50 Years of Producing High-quality Plants for the Trade.

We are now booking orders for Fall, 1949, and Spring, 1950.

## EVERGREENS - SHRUBS - VINES

*Ampelopsis Lowi*  
*Azaleas, Hardy*  
*Caryopteris Clandonensis*  
*Cotoneaster Horizontalis*  
*Euonymus Coloratus*  
*Hedera Helix*  
*Kerria Japonica*  
*Lonicera Henryi*  
*Neillia Sinensis*  
*Pieris Japonica*  
*Rhododendron Hybrids*  
*Taxus Cuspidata*  
*Taxus Cusp. Capitata*  
*Wistaria*

## PERENNIALS

In leading varieties, such as:

*Double Gypsophila*  
*Helleborus niger*, pot-grown

## ROSES

Climbers in variety  
*Floribundas—Polyanthas*  
*Hybrid Teas*  
*Hybrid Perpetuals*  
*Hybrid Rugosas*, many varieties  
*Old-fashioned Roses*  
*Tree Roses*, on *Rugosa* stems

Plan to visit our Home Nursery at E. Rutherford, or our Branch Nursery at Smithburg, N. J.  
(6 miles southwest of Freehold, N. J.)

**BOBBINK & ATKINS** — 588 Paterson Ave., EAST RUTHERFORD, N. J.

the dormant scale spray may resort to a summer crawler spray and use two or three pounds of a fifty per cent wettable DDT to 100 gallons of water. This spray is difficult to time, as no exact date can be given as to when the scale crawlers will appear. Each nurseryman must observe for himself. The crawlers will be tiny yellowish specks, smaller than a pinhead, and good eyesight is required to see them. DDT has the advantage of a residual effect of three weeks or longer if coverage is thorough. The summer crawler sprays containing nicotine or summer oils are mainly contact sprays.

CARL TILLMAN is general manager of Riverhill Nursery, a wholesale firm recently started at Newburgh, Ind. Although 16,000 evergreen plants will be planted each season at the 60-acre nursery, no stock will be available for the trade until the fall of 1950.

WISTARIAS were the subject of the June 10 issue of *Arnoldia*, a continuation of the bulletin of popular information of the Arnold Arboretum. The collection there contains some thirty-five species and varieties, about which some interesting points were noted in the 12-page bulletin by Dr. Donald Wyman.

# TAXUS

Our *Taxus* are especially nice this season; compact, dark green and three times transplanted.

Varieties including: *Cuspidata*, *Capitata*, *Hicksi*, *Browni* and *Repandens*.

Also specimen landscape material.

Send for list.

**W. A. NATORP CO.**

CINCINNATI 29, OHIO

**NORTHERN COLLECTED EVERGREENS  
FERNS**

**PLANTS**

**SHRUBS**

**WILLIAM CROSBY HORSFORD**  
Charlotte, Vermont

**Mountain Laurel** (*Kalmia Latifolia*).

*Rhododendron Maximum*.

Specialty, large plants 5 to 8 ft.  
Collected stock.

Price list on request.

**J. RICHARD BARRY**  
White Haven, Pa.

# HOLLAND BULBS—ORDER NOW

## QUANTITY DISCOUNTS

These QUANTITY DISCOUNTS are in addition to Cash Discounts shown below.

If your order totals \$ 100.00, deduct 2%  
If your order totals 250.00, deduct 5%  
If your order totals 500.00, deduct 7%  
If your order totals 1000.00, deduct 10%

### DARWIN TULIPS

	Prices per 1000
AFTERGLOW, orange, shaded pink and salmon, 12 cm. 11 to and up 12 cm.	\$50.00 \$40.00
All Bright, bright red.	40.00 30.00
Bartigon sport	40.00 30.00
Allard Pierson, crimson-maroon	40.00 30.00
Aristocrat, soft purplish violet rose	50.00 40.00
Bartigon, cochineal-red	40.00 30.00
Bartigon Max., imp. Bartigon.	40.00 30.00
Campfire, blood-red sport of Bartigon	40.00 30.00
Charles Needham, vermilion-scarlet	50.00 40.00
City of Haarlem, large, deep red	50.00 40.00
Clara Bull, salmon-pink	50.00 40.00
Cordell Hill, red, feathered white	40.00 30.00
Demeter, deep violet-blue, large flower	50.00 40.00
Eclipse, chestnut-red, large	50.00 40.00
Farncombe Sanders, bright red	47.50 37.50
Giant, purple-violet, large flower	50.00 40.00
Golden Age, golden-yellow, flushed orange	47.50 37.50
Insurpassable, beautiful lilac	50.00 40.00
Margeaux, deep wine-red	50.00 40.00
Niphetos soft sulphur-yellow	47.50 37.50
Philip Snowden, carmine-rose	40.00 30.00
Bartigon sport	40.00 30.00
Pride of Haarlem, carmine-rose, large	47.50 37.50
Pride of Zwanenburg, bright rose, large	50.00 40.00
Princess Elizabeth, lilac-rose	47.50 37.50
Prof. Rauwenhoff, cochineal-red	47.50 37.50
Prunus, salmon-pink, Bartigon sport	40.00 30.00
Queen of the Night, deep velvet maroon	50.00 40.00
Red Pitt, bright red, sport of Wm. Pitt	50.00 40.00
Rose Copland, lilac-rose	40.00 30.00
Scotch Lassie, deep lavender	50.00 40.00
The Bishop, purple-violet	50.00 40.00
Victory (Victoire d'Oliviera), deep crimson	40.00 30.00
William Copland, bright lav.	40.00 30.00
William Pitt, Cochineal-red	47.50 37.50
Yellow Giant, golden-yellow	47.50 37.50
Zwanenburg, pure white	50.00 40.00
Rainbow Mixture	40.00 30.00

### HYACINTHS

	Per 1000
14 to 15 cm.	\$ 55.00
15 to 16 cm.	65.00
16 to 17 cm.	75.00
17 to 18 cm.	90.00
18 to 19 cm.	100.00
19 cm. up.	130.00

### CROCUSES

PURPLE, WHITE, YELLOW, BLUE, STRIPED, MIXED

	Prices per 1000
8 to 9 cm.	\$15.00
9 to 10 cm.	17.50
10 cm. and up.	22.50

### MISCELLANEOUS BULBS

	Prices per 1000
TOP SIZE	
Muscari Armeniacum (Grape Hyacinths), blue	\$20.00
Sella Campanulata, blue, rose or white	22.50
Sella Sibirica, sky-blue	22.50
Chionodoxa Lucifera, lilac-blue	20.00
Eranthis Hymenalis, golden yellow	20.00
Fritillaria, Imperialis (Crown Imperial)	30.00
Fritillaria Meleagris (Guinea Hen Flower)	30.00
Galanthus Nivalis Simplex (Single Snowdrop)	35.00
Galanthus Nivalis Plenus (Double Snowdrop)	40.00

### NARCISSI

	Prices per 1000
D.N. D.N.	
No. 1 No. 2	
Carlton (Incom.), yellow, frilled cup	\$65.00 \$50.00
Cheerfulness (Poetaz), double white	65.00 50.00
Early Perfection (Poetaz), white, yellow cup	65.00 50.00
Fireball (Barri), white perianth, red cup	65.00 50.00
Geraldum (Poetaz), white perianth, orange-red cup	65.00 50.00
Golden Harvest (Trumpet), golden-yellow, large	95.00 75.00
Harelock (Incom.), yellow perianth and cup	65.00 50.00
Inglescombe (Double), soft canary-yellow	85.00 65.00
King Alfred (Trumpet), golden-yellow	85.00 65.00
La Fiancee (Poetaz), white perianth, orange cup	65.00 50.00
Laurens Koster (Poetaz), white, orange cup	65.00 50.00
Magnificence (Trumpet), deep yellow	85.00 65.00

PACKING: Tulips are packed 100 or 250 per bag; Hyacinths 50 of 100 per bag; Crocus, Miscellaneous and Narcissus, 100 or 250 per bag. TERMS: Less 2%, 10 days; 30 days net—if credit is established. Cash with order earns 3% discount. NO CHARGES FOR CASES OR PACKING. F.O.B. New York, Detroit or Chicago. Minimum Orders: \$50.00.

EXCLUSIVELY  
WHOLESALE

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Telephone: LIVONIA 3331

IMPORTERS-EXPORTERS  
CARLOT DISTRIBUTORS

### MENDEL TULIPS

	Prices per 1000
12 cm. 11 to and up 12 cm.	
Fridtof Nansen, scarlet	\$40.00 \$30.00
Her Grace, lilac-rose, white base, large	40.00 30.00
Krelinge's Triumph, deep crimson-red	40.00 30.00
Van der Eerden, wine-red	40.00 30.00
Weber, white, edged lilac-rose	40.00 30.00

### SINGLE EARLY TULIPS

Couleur Cardinal, deep, glowing scarlet	50.00 40.00
General de Wet, large, bright orange	42.00 32.00
Ibis, deep pink, white markings	50.00 40.00
Kelzerskroon, red with yellow margin	50.00 40.00
Olympiade, extra fine yellow	42.00 32.00
Prince of Austria, orange-red, sweet-scented	42.00 32.00
Sunburst, yellow, flushed red	50.00 40.00

### DOUBLE EARLY TULIPS

White Hawk, pure white	42.00 32.00
Electra, wine-red	50.00 40.00
Marcehal Niel, yellow, flushed salmon	50.00 40.00
Mr. Van der Hoeft, pure yellow	50.00 40.00
Murillo, white, flushed pink	50.00 40.00
Orange Nassau, orange-scarlet	50.00 40.00
Peach Blossom, deep pink	50.00 40.00
Schoonoord, pure white	50.00 40.00
Triumphator, deep rose	50.00 40.00
Vuurbaak, deep red	50.00 40.00

### DOUBLE LATE TULIPS

Bonanza, carmine-red, edged yellow	60.00 50.00
Coxs, carmine-red, tipped white	50.00 40.00
Eros, old rose	50.00 40.00
Mount Tacoma, pure white	65.00 55.00
Symphonia, carmine	65.00 55.00

### PARROT TULIPS

Blue Parrot, steel-blue, flushed violet	50.00 40.00
Fantasy, salmon-pink, green markings	55.00 45.00
Orange Favorite, orange, streaked green	65.00 55.00
Red Champion, red, flushed scarlet	90.00 80.00
Sunshine, golden-yellow	95.00 85.00
Therese, cochineal-red	90.00 80.00
Violet Queen, bluish-violet	65.00 55.00

### BOTANICAL (SPECIES) TULIPS

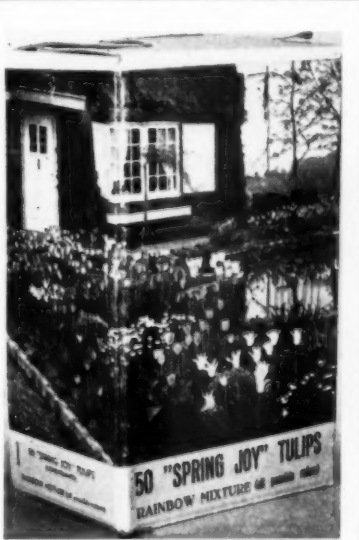
	Prices per 1000
TOP SIZE	
Eichleri, scarlet and greenish-bronze	\$50.00
Fosteriana "Red Emperor", scarlet, very large and early	60.00
Marjolietti, pale yellow, rosy edge	55.00
Prastans "Fuslier", vermilion-orange, 2 to 3 flowers per stem	55.00

Imported  
Holland Bulbs  
Colorfully Packaged

TULIPS  
HYACINTHS  
CROCUSES  
NARCISSCI

Packed 12, 48 and  
50 per carton.

Send for  
descriptive  
circular today.





# Missouri Outing

The Missouri State Nurserymen's Association opened its 2-day meeting June 21 at Hotel Chase, St. Louis, with over 100 registrations. From out of state were Jack Hanley, Arp Nursery Co., Tyler, Tex.; Ronald Cultra, Onarga Nursery Co., Onarga, Ill.; Bernard J. Buenemeyer, Armour Fertilizer Co., Germantown, Ill.; Mr. and Mrs. Walter J. Nallau, Nallau Nursery, Belleville, Ill.; Elmer V. Scott, Mount Arbor Nurseries, Shendoah, Ia.; John Fraser, Huntsville Wholesale Nurseries, Huntsville, Ala.; J. W. Fike, Fike Nurseries, Hopkinsville, Ky.; M. Oliver, M. Oliver Rose Farms, Tyler, Tex., and W. H. Heflin, Swift & Co., National Stock Yards, Ill.

Most of the morning of June 21 was devoted to registration, after which the entire group was taken to Westover Nursery Co., on Olive Street road, University City, where an old-fashioned barbecue was awaiting it. The Westover Nursery Co. and the Landscape and Nurserymen's Association of Greater St. Louis were hosts. Many of the members spent the afternoon visiting the various nurseries in the area, and the group was divided for the evening, some attending the Giants-Cardinals baseball game, while about seventy-five attended the Municipal Opera in Forest park.

The morning of June 22 was spent visiting nurseries, the zoo and local breweries, and the afternoon was devoted to the regular business meeting.

In the evening a cocktail party was held in the Regency room of the Hotel Chase, with the members of the St. Louis Landscape and Nurserymen's Association acting as hosts. Over 100 persons were present at the party and the banquet which followed on the roof garden of the hotel. Dancing and a floor show completed the evening.

Several new members were accepted by the association. The new active members are J. G. Thomas, Thomas Greenhouses, Lebanon; Robert E. Chappeau, Tri-City Nursery, Festus, and Zeno Fultz, Fultz Florist, Crystal City. And the new associate members are Joseph Ritter, Joseph Ritter, Inc., St. Louis; Corneli Seed Co., St. Louis; Glenn C. Harnden, Harnden Seed Co., Kansas City, and the Arp Nursery Co., Tyler, Tex.

The out-of-town members expressed their appreciation for the hospitality of the local group and for

the well arranged meeting. Credit must be given to Joseph P. Houlihan, Houlihan Nursery Co., Creve Coeur, who was delegated by the group to arrange the meeting, and to the hard-working secretary, Edward Ambo, Ambo Bros. Nursery, St. Louis, who was married a week after the meeting. Mr. Houlihan had able assistance from the members in the area, among them Vance Shield, who made arrangements for the cocktail party, and Reginald Wilson, who had charge of the barbecue at Westover Nursery Co.

The otherwise enjoyable meeting was marred near the close by the injury to Mrs. Vance Shield, when she slipped on a step in the lobby and broke a leg. Mrs. Shield was active throughout the meeting as chairman of the ladies' group to entertain the out-of-town woman guests.

C. F. G.

## CANADA'S PLANT IMPORT REGULATIONS REVISED.

Consolidated and revised regulations of the destructive insect and pest act, effective April 1, have been

*"Yours for Growing Satisfaction"*

## NEOSHO NURSERIES CO.

Neosho, Missouri

Fruit Trees—Grapes

Shrubs—Evergreens

Vines—Hedges

Ask to see our new 64-page, all-color Plate Book available for immediate delivery.

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announced by the department of agriculture of Canada. According to the regulations, before any nursery stock may be imported into Canada, a permit must be obtained from the chief, division of plant protection, science service, department of agriculture, Ottawa. The importer must then notify the shipper of the number of the permit and present the permit at the port of entry.

Every shipment of nursery stock originating in a country which maintains an inspection service must be accompanied by a certificate of inspection issued and signed by an authorized official of that country, stating that the stock is free from any pest or disease.

Furthermore, each container of nursery stock must be clearly marked



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Flowering Plum

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MINNESOTA SNOWFLAKE  
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AMERICAN NURSERYMAN

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anticipation of continued high volume  
of nursery sales in the season ahead.

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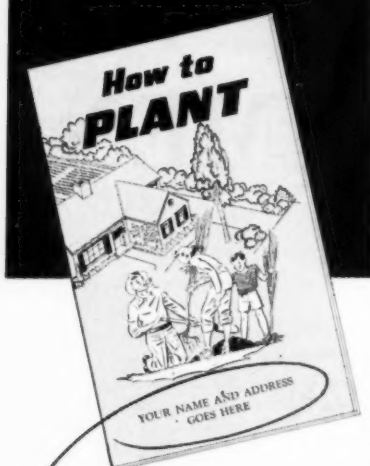
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with the name and address of the consignor and consignee and the permit number and also shall have a declaration of the quantity and type of stock contained inside, unless this information is included on the copy of the certificate of inspection.

Nursery stock imported into Canada from any country in any way other than by mail must be routed through one of eleven designated ports. Stock in small quantities also may be imported by mail or air express or air freight through three additional ports. If stock arrives at any other port, it will be routed to one of these ports for inspection or clearance.

If, on inspection, nursery stock is found to be infested with any pest or disease, it will be subjected to treatment, destroyed or returned to the shipper, as thought necessary by the inspector. All charges for storage, cartage and delays incident to inspection and cost of treatment or destruction, other than the services of the inspector, will be borne by the importer.

Included on the list of prohibited imports are plants, except seeds, of 5-leaved species of pinus and their varieties; plants, except seeds, of all species and varieties of ulmus and zelkova, and plants and seeds of all species, varieties and hybrids of barberry in the genera berberis, mahonia and mahoberberis, except when these are determined by the dominion botanist to be immune to black stem rust of wheat. Also excluded are plants, including seeds, of all buckthorns in the rhamnus genus, except when they have been determined to be immune to crown rust of oats. The importation of plants, except seeds, of all species, hybrids and varieties of corylus (hazel, cob and filbert) into British Columbia from Montana, Wyoming, Colorado, New Mexico and all states east of these is prohibited.

Other sections of the revised act restrict the importation of plants from gypsy and brown-tail moth areas, plants with soil from Asia, chestnut plants, stone fruits and certain flowering trees imported into British Columbia.

**OFFICERS** of the Heathcote Nurseries, Inc., Fort Pierce, Fla., wholesale growers of tropical ornamentals, are: Frederick P. Fox, chairman of board of directors; James F. Crimmins, president and general manager; Dewey Crawford, secretary, and Mollie B. Crimmins, treasurer and retail manager.

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Also Yellow and Orange Climbers.

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LITTLE COMPTON, R. I.

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**Cydonia Japonica**, 6 to 9 ins. . . . **\$25.00**

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Grown from seedlings selected from upright-growing plants over a period of years.

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**Rosa Multiflora Japonica**, row run, 10 to 15 ins., culls removed, thorny type.

Per 1000  
1,000 to 25,000 . . . . . **\$18.00**  
25,000 to 50,000 . . . . . **16.50**  
50,000 to 100,000 . . . . . **15.00**  
100,000 and up . . . . . **14.00**

**Graded Rosa Multiflora** selected for good straight shanks for budding purposes.

Per 1000  
3 to 4 mm. . . . . **\$25.00**  
4 to 6 mm. . . . . **30.00**  
6 to 8 mm. . . . . **35.00**

Any of the above material can be delivered after November 15. All prices quoted are F.O.B. Manchester, Conn.



**C. R. BURR & COMPANY, Inc.**

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*"Growing Since '98"*



## GRAPE DISEASES.

[Concluded from page 26.]

ters also helps. Soil fumigants such as D-D, carbon disulphide and Dowfume will be effective if needed. As the borers feed upon the foliage, it can be sprayed with arsenate of lead to which molasses has been added, one pint to fifty pints of spray, to make the foliage more attractive to the creatures.

The leaf folder insect, which folds one edge of the leaf over the other and then skeletonizes the inner surface, often does serious damage. Spraying with arsenate of lead and collecting and burning all leaves in the fall will give good control.

THE nursery business operated by William R. Smith, at Route 1, Milford, N. J., is being discontinued.

STORE manager of the new Koeneman Garden Center which will be opened soon as a division of Beverly Greenhouse & Nurseries, Fort Wayne, Ind., is C. William Polack, who has been working in the landscape department of the firm. The garden center is under construction at Piqua and Oakdale avenues, Fort Wayne. A. E. Koeneman is owner of Beverly Greenhouse & Nurseries.

## Virginia Seaside Roses

The quality of our Virginia Seaside Roses was clearly proved by many repeat orders this Spring. They will be just as good for Spring, 1950, and our list of varieties is far more complete, including many patented roses. Get in touch with us without fail before placing your rose order.

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Our fruit stock is in beautiful shape, but our supply is not too large. Evergreens and shrubs are not too plentiful, and many varieties are practically off the market. We are anxious to take care of our regular customers and suggest that orders be entered as early as possible.

**ILGENFRITZ NURSERIES, Inc.**

"THE MONROE NURSERY"

MONROE, MICH.

## WANT FOR FALL

150 **Rhododendrons**, grafted hybrids, 2 ft.  
150 **Euonymus vegetus**, 18 ins.  
150 **Hybrid Lilacs**, 30 ins.  
100 **Saucer Magnolias**, 3 ft.  
100 **Red-flowering Dogwoods**, 4 ft.  
50 **Blood-leaved Japanese Maples**, 2 ft.  
2,000 **Veitch Fir**, small, L.O.

**PEACOCK NURSERY**

**Akron 3, Ohio**



# New Books and Bulletins

## BAILEY'S MANUAL OF CULTIVATED PLANTS.

One of the monumental undertakings for which Dr. Liberty Hyde Bailey was originally responsible was his "Manual of Cultivated Plants," originally published in 1923. The appearance of a revised edition has long been awaited, and it has just come from the press of the Macmillan Co., at \$17.50. This volume of 1,116 pages, just two inches thick, will find a place on the reference shelf of nurserymen, florists, gardeners and all others interested in the identification of the plants they handle.

This revised edition, much expanded and completely restudied to bring it up to date, includes fresh material and current nomenclature. According to the author's foreword, the revised manual includes 194 natural families, 1,523 genera and 5,347 species, besides many incidental references to species. This contrasts with 170 natural families, 1,246 genera and 3,665 species in the original edition of the manual. This book, one should understand, deals only with the species and does not include horticultural varieties.

The volume provides a ready means for the identification of species of plants cultivated in the continental United States and Canada. In addition to the keys and diagnoses, the book contains explanations of more than 1,000 botanical terms and 195 carefully rendered drawings showing plant structures in detail. In the compilation of the revised manual Dr. Bailey had the assistance of the staff of the Bailey Hortorium at Cornell University.

## ORCHID CULTURE.

A complete manual of orchid culture for the amateur, "Orchids Are Easy to Grow," by H. B. Logan and Lloyd C. Casper, has just been published by the Ziff-Davis Publishing Co., Chicago. The 312-page book priced at \$6, contains comprehensive yet simple instructions for the culture of these exotic flowers. Although written primarily for the amateur who wishes to make a hobby of orchid growing, the book will serve commercial growers who are just starting with this crop, since the authors assume little prior knowledge of orchids on the part of the reader.

In addition to twenty-one full-color plates of some of the most beautiful types of orchids, the early

part of the book includes information on home and garden culture, potting techniques, seed germination, propagation, nutrition, watering, pests and composts. It is particularly helpful from the standpoint of defining environmental requirements for various types of orchids, thus making it possible for the grower to select the kinds best suited to his conditions, or the special structures that will be required if he desires to grow certain additional types of orchids.

The latter part of the book deals with several of the orchid genera that are specially suitable for cultivation by amateurs. These are handled chapter by chapter, with the following chapter heads noted: Bletia, Calanthe, Cattleya, Cymbidium, Cypripedium, Dendrobium, Disa, Epidendrum, Laelia, Lycaste, Odontoglossum, Oncidium, Phalaenopsis,

Quaint Orchids and Orchids for Special Purposes. Each chapter, covering a specific type of orchid, delves into the various cultural requirements and specifications.

A table at the end of the text makes it possible at a glance to determine major characteristics and requirements of numerous orchids. The tabulation includes such items as blooming period, predominant color, flower size, number of flowers per stem, fragrance, epiphyte or terrestrial, compost, temperature, light, propagation, deciduous or evergreen, humidity, watering, minimum requirements for growing structure and general remarks.

## GARDEN CLUB SYMPOSIUM.

Compiling useful information pertinent to the locality, the Milwaukee District Garden Clubs of the Wisconsin Garden Club Federation has just issued a "Symposium on Roses" consisting of thirty-two mime-

## Holland-Grown Nursery Stock

Shrubs and Trees,  
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Rhododendrons and Azaleas  
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Catalog on application.

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### LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

eographed pages, similar to the "Symposium on Shrubs" of the same size which was the club's horticultural project last year.

Practical and informative material both are included in each of these, with bibliographies. They are certain to promote better gardening, as well as the interest of those who read them, in the latitude of Milwaukee. Copies of each, at 55 cents per copy, are available from Mrs. Fred C. Marquardt, R. 1, Box 63, Hales Corners, Wis., who is publicity chairman of the Milwaukee clubs.

#### DAFFODIL CLASSIFICATION.

In the hope that classifications of daffodils may be made uniform in bulb catalogs, a circular has been prepared by the Royal Horticultural Society of Great Britain to acquaint and remind bulb distributors of the revised system of daffodil classification set forth in the 1948 edition of the "Classified List of Daffodil Names," published by the society.

The system of classification has been amended for two main reasons: First, to make it more logical and thus easier to understand and apply, and, second, to provide for the evolution of the daffodil in directions which are already taking place or

### ORIENTAL POPPIES

Strong Field-grown Plants.  
Early September Delivery.

#### Many Varieties Available

Let Us Quote on Your Needs!

Send for our Midsummer trade list featuring a most complete line of **Bulbs, Iris, Peonies** and other **Perennials**.

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Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

## WE WANT TO BUY SHADE TREE WHIPS AND ALL VARIETIES OF LINING-OUT STOCK.

Send us your price list.

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## MANY THANKS FOR PAST FAVORS

We are looking forward to serving you  
this fall and next spring.

Shrubs      Small Ginkgo Biloba  
Barberry, Red-leaved and Green-leaved

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## HARDY PLANTS

150,000 Hardy Phlox Decussata in 50 popular varieties.

100,000 Phlox Subulata (Moss Phlox) in 5 popular varieties.

50,000 Hardy Chrysanthemums in 30 varieties.

A large number of Delphiniums, Carnations, Columbines, Daisies and many more best sellers in hardy plants at reasonable prices.

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## COLE'S SPECIALTIES for 1949-1950

A. W. Spiraea	Sugar Maple
Pink Spiraea	Silver Maple
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Euonymus alatus	Willows in variety
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Snowberry	Thornless Honey Locust
Chenault Coralberry	Viburnum dentatum

**Euonymus f. vegetus**  
and other Evergreen Euonymus

A fine assortment of Perennials.

A general assortment of Evergreens.

**THE COLE NURSERY CO.**  
PAINESVILLE, OHIO

### PEONIES

Strong divisions, fresh dug when weather permits.  
Thousand lots, 10 per cent less.

Felix Crousse, cherry-red.....	Per 100
Mons. Jules Elle, pink.....	\$40.00
Mons. Martin Cahuzac,	35.00
darkest red .....	40.00
Baroness Schroeder, white.....	40.00
Karl Rosenfeld, crimson.....	40.00

TERMS: Cash with your order, please.

**PAYNE DAHLIA FARMS**  
Route 5, Kansas City 3, Kansas

### LINING-OUT STOCK

Hall's Japanese Honeysuckle—clumps and transplants, California and Amur River South Privet, lining-out Tree Seedlings, Tree and shrub seeds, Cornus Florida (White Dogwood) seeds.  
Many varieties in seeds and seedlings. Write for price list.

### TARLTON NURSERIES

E. J. Morton, Owner  
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### Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List  
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Telephone 2689 GENEVA, N. Y.

### LINERS

Ask for list.

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which can be foreseen. The principal changes involved are: 1. The Leedsii division has disappeared, and the varieties which used to fall into that division have been transferred to divisions II and III. 2. Divisions II and III have been named, "Incomparabilis" and "Barrii" being replaced by "Large-cupped Narcissi" and "Small-cupped Narcissi." 3. Divisions II and III have been provided with a third subdivision (lettered c.) for varieties which are white or whitish and have hitherto been classified as Leedsii varieties.

The revised system was framed after consultations by representatives of the R. H. S. with those of the Dutch General Bulb Growers' Society and with bulb specialists in Great Britain, the United States, Canada, Australia and New Zealand.

### HIGHWAY DEVELOPMENT.

The 1949 short course on roadside development, held at Columbus, O., earlier this year, included a number of instructive papers, which are contained in a paper-bound, mimeographed booklet of 104 pages, 8 1/2 x 11 inches, copies of which can be obtained either from Prof. Charles R. Hutton, Department of Architecture and Landscape Architecture, Ohio State University, Columbus 10, O., or Dallas D. Dupre, Jr., Landscape Architect, Ohio Department of Highways, Columbus 15, O.

The short course was held under the sponsorship and direction of the department of landscape architecture at the university, with the state department of highways cooperating. This booklet is a textbook of up-to-date material on the subject of highway development.

### PAPER ON WEED CONTROL.

Station paper No. 17, "Control of Weeds in Conifer Nurseries by Mineral Spirits," by J. H. Stoeckeler, forester in charge, northern branch, lake states forest experiment station, Rhinelander, Wis., will be issued in late July. Some advance copies will be made available to nurserymen upon request, according to E. L. Demmon, director of the University Farm, lake states forest experiment station, St. Paul, Minn.

### BULLETINS RECEIVED.

The processes by which crops take from the soil the mineral elements they need and the effects of various types of fertilizers on the soil are described in circular 367, "Fertilizers,

# EVERGREEN GRAFTS

## SPRING 1950 DELIVERY

### WHY OUR GRAFTS ARE THE BEST THAT CAN BE GROWN

They are made by expert labor only.

Made on strong thrifty understock with proper root growth established in 2 1/2-inch pots.

Made with long young scions.

Proper heat and ventilation to insure proper callusing.

These are only a few of the reasons why Chandler's Grafts make such rapid growth when lined out in the field.

### VARIETIES

**JUNIPERUS SCOPULORUM**—Silver or Green, including Alba, Blue Bush, Blue Queen, Chandler's Silver, Colorado Green, Linwood, Madona, Marshall, Pathfinder, Salina, Silver Glow, Staver, Sutherland and Parki, and other varieties.

**JUNIPERUS VIRGINIANA**—Blue, Burki, Canaerti, De Forest Green, Glauca, Globosa, Keteleeri, Manhattan Blue, Pyramidalis, Hill's Dundee and other varieties.

55c each in quantities over 300; under 300, 60c each.

These prices include scion wood furnished by us. Any scion wood that we have to purchase will be charged at cost.

## CHANDLER LANDSCAPE & FLORAL CO.

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Soil Analysis and Plant Nutrition," by D. R. Hoaglund. Published by the California agricultural experiment station, Berkeley, the 24-page bulletin was revised in April, 1949. Mr. Hoaglund explains factors which will help farmers choose the fertilizers they need and avoid the expense of buying one they do not need. Special summaries throughout the bulletin and graphic illustrations clarify and amplify the text.

In circular 391 of the California agricultural experiment station, Berkeley, the design and construction of open drains and tile drain systems are discussed, with emphasis on spacing, grade, runoff, depth, location and backfilling. The 24-page bulletin, entitled "Land Drainage," is written by Walter W. Weir. Several diagrams and formulas to help the nurseryman or farmer to determine the correct size of drain to carry various estimated amounts of water are included. Maintenance of drains and accessories for drains also are described in the circular.

Special attention is given to the elements of temperature and precipitation in the abridged edition of bulletin 532, "Climate of Illinois," recently published by the agricultural experiment station, University of Illinois, Urbana. Including a summary

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#### LINING-OUT EVERGREENS

<i>Abies balsamea</i>	Per 100	Per 1000
4 to 8 ins.....	\$4.00	\$25.00
8 to 12 ins.....	8.00	60.00
<i>Thuja occidentalis</i>		
3 to 6 ins.....	3.00	20.00
6 to 12 ins.....	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	5.00	40.00

All the above stock is first-quality collected seedlings.

#### NURSERY-GROWN HEMLOCKS

<i>Tsuga canadensis</i>	Per 100	Per 1000
8 to 12 ins.,		
2-yr. transplants..	\$16.00	\$150.00
12 to 15 ins.,		
2-yr. transplants..	25.00	....
18 to 24 ins.,		
3-yr. transplants..	40.00	....

Send for complete wholesale list.

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## ORNAMENTAL EVERGREENS

### Trees & Shrubs

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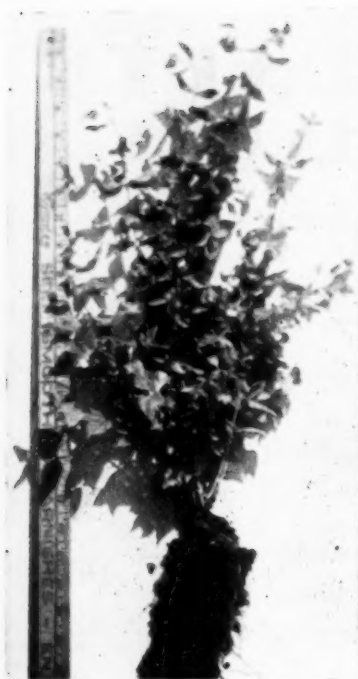
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	Per 100	Per 1000
15 to 18 ins., bushy, as shown . . .	\$20.00	\$175.00
12 to 15 ins., regular . . . . .	15.00	125.00
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French Hybrids and Standards in 30 best cut flower varieties.

1-yr. grafts, \$25.00 per 100; \$200.00 per 1000.

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Also list of Taxus and other liners for Fall, 1949, shipment now ready.

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EVERGREENS**

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**BRYANT'S NURSERIES**

Princeton, Illinois

and analysis of long-time weather records, the 148-page booklet, written by John L. Page, department of geography, University of Illinois, contains tables, maps and graphs showing seasonal and geographical distribution of temperature and precipitation in Illinois.

In circular 168 of the Connecticut agricultural experiment station, New Haven, J. C. Schread describes ways of detecting chinch bug injury to lawns and methods and insecticides to use in eliminating the insects. The 6-page bulletin, entitled "Chinch Bug Control in Lawns," includes information on how to identify chinch bugs and suggests specific insecticides and equipment for applying them to the lawn to control chinch bugs.

Methods of increasing plant stands in blueberry fields and thus influencing the acre yield are described in bulletin 467 of the Maine agricultural experiment station, Orono. Entitled "Increasing Plant Stand in Blueberry Fields," the 27-page bulletin, written by C. W. Hitz, explains propagation by rhizome cutting, by transplanting and by cultural methods, giving the results in experiments with the various ways of increasing stands. Nine illustrations and eight tables clarify the information on the outcome of tests in greenhouses and in the field.

**WHO WAS WHO?**

When a new variety of plant is introduced, its name is likely to have current interest of more or less importance, whether the novelty is named for the originator's wife or daughter, a political or civic leader, a stage or radio personage, or the like. After the passage of years, these names are used by plantsmen without sense of their historical connection and may lose interest except to the curious. When centuries have passed, the origin of a name sometimes is vague and legendary.

But to those persons whose interest in plants extends not only to what they are, but also to their origin and how they were christened, there is fascinating reading in a little book of eighty pages, containing several illustrations from earlier days, entitled "A Horticultural Who Was Who," and written by A. Simons, deputy secretary of the Royal Horticultural Society, London, England.

He did considerable research to discover after which Sir William Gage was named the Green Gage plum when it was imported into England 225 years ago, across the channel from France, where it had been

BRUCE HOWELL

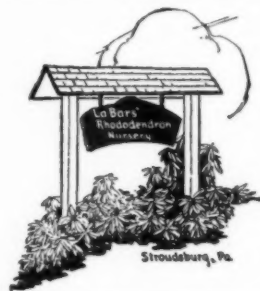
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Hardy, Northern-grown

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Our new bulletin, DIG and DUNG, will be ready for mailing by August 1. Send for your copy today.

### WAYLAND DAHLIA GARDENS Box A. N. WAYLAND, MICH.

cultivated as much as two centuries before as Reine Claude, in honor of the queen of Francois I. Another considerable task was tracing the Mr. Cox, of Cox's Orange Pippin apple, a popular British variety which came into commerce a century ago.

Of more interest to those on this side of the Atlantic is the fact that the widely known climbing rose, Dorothy Perkins, introduced at the beginning of the present century by Jackson & Perkins Co., Newark, N. Y., was named after the granddaughter of the C. H. Perkins who was then the head of the company; she subsequently became Mrs. E. P. Estabrooke, now residing at Germantown, Philadelphia, Pa. Betty Up-richard, another favorite rose, bears the name of a neighbor and friend of the Dicksons, Newtownards, Ireland, the introducers; she was fond of roses and horses, and was killed in a hunting accident in 1924. Frau Karl Druschki, another famous rose, was named after the wife of the president of the German Rose Society by the raiser, the late Peter Lambert, of Trier, Germany, who entered the seedling in a competition organized in 1900 by a Frankfort gardening journal which offered 1,000 marks for a new rose to be named Bismarck; the red flower

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which won the competition has never been widely grown, while the jury passed over Lambert's white favorite. Madam Caroline Testout was named for a fashionable London dressmaker who purchased it as part of a publicity campaign. Incidentally, it was the seed parent of Frau Karl Druschki and was distributed in 1890 by the famous French hybridizer, Joseph Pernet-Ducher. Another of his seedlings was named for M. Julien Potin, proprietor of a grocery store chain, by a committee of Potin's employees who purchased it as a gift to their employer.

The pink-trumpeted daffodil, Mrs. R. O. Backhouse, commemorates a celebrated raiser and exhibitor of daffodils at the R. H. S. shows, from about 1888 until her death in 1921. The yellow cottage tulip, Mrs. Moon, was of obscure origin and, when described in 1896, was illustrated with a colored plate from the brush of H. G. Moon. The variety was named for the artist's wife, who was the daughter of the famous orchid grower, the late H. F. C. Sander and sister of the present head of the famous St. Albans firm of Sanders, Ltd.

The list could be continued and amplified for those whose pleasure it is to read about such matters. For them, it is hoped, the registrations of plants that are now becoming more inclusive will preserve data in regard to recent and future introductions.

### VIBURNUMS.

[Continued from page 27.]

num, *V. rhytidophyllum*, must be mentioned as an evergreen plant. Where it has an opportunity to grow freely, this Chinese species can develop into an upright, 10-foot plant. Its narrow 6-inch leaves are unwrinkled and shining. The red, and later black, fruits are more showy than the yellowish flowers from which they develop. This is definitely one of those plants which are all right when they are all right culturally, but might just as well be forgotten where it does not thrive.

Of the several native species which have almost too much size to be considered for small plantings, only one is looked upon as being a tree. Old plants of this one, *V. prunifolium*, are treelike, it is true, but usually are multiple-stemmed. They are found in moist soils up to a height of fifteen feet. The broad, rounded heads bear large clusters of white flowers, followed by persistent, blue-black, prune-like fruits in autumn. The fruits are eaten by birds. Obviously, this is a plant for roadside

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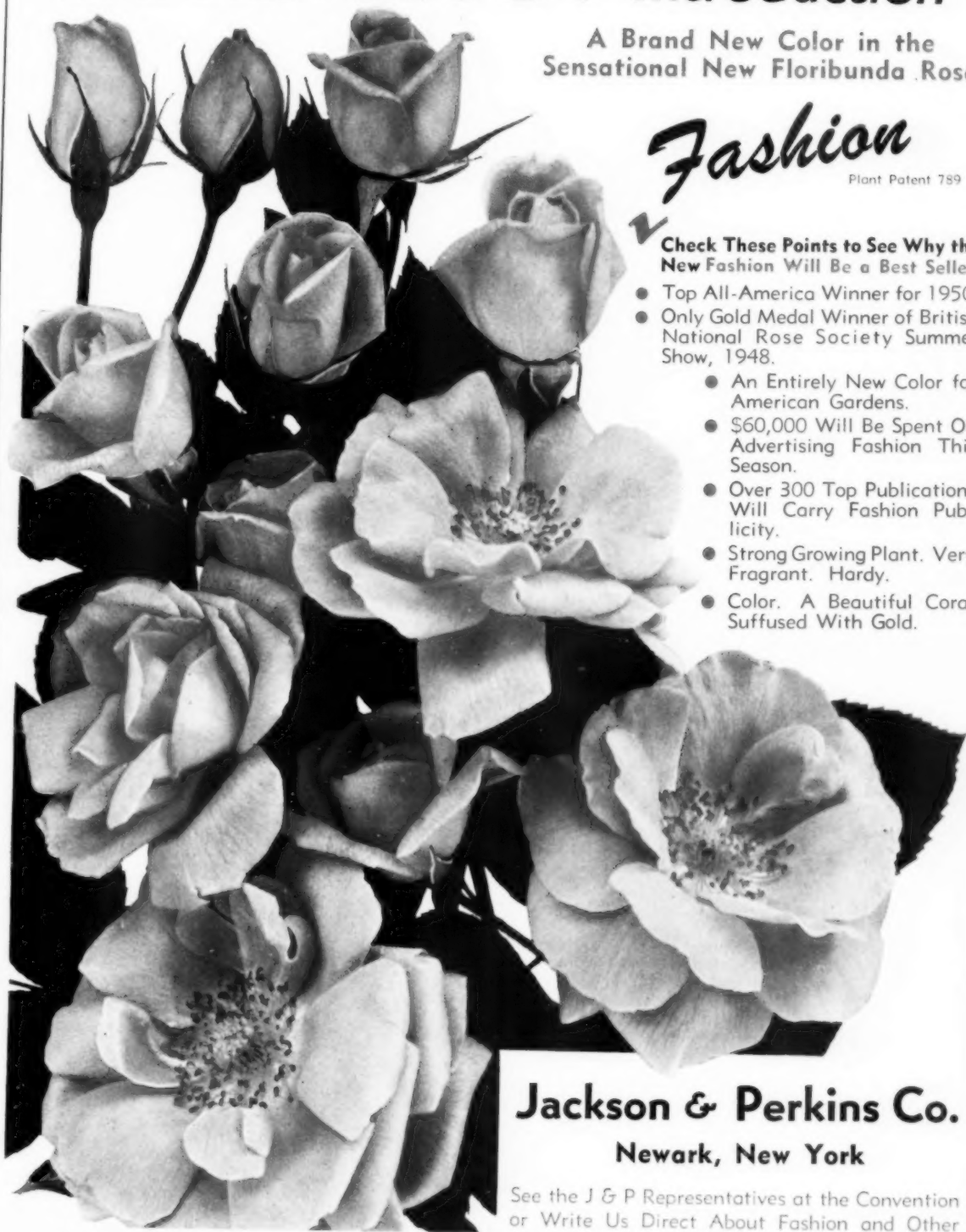
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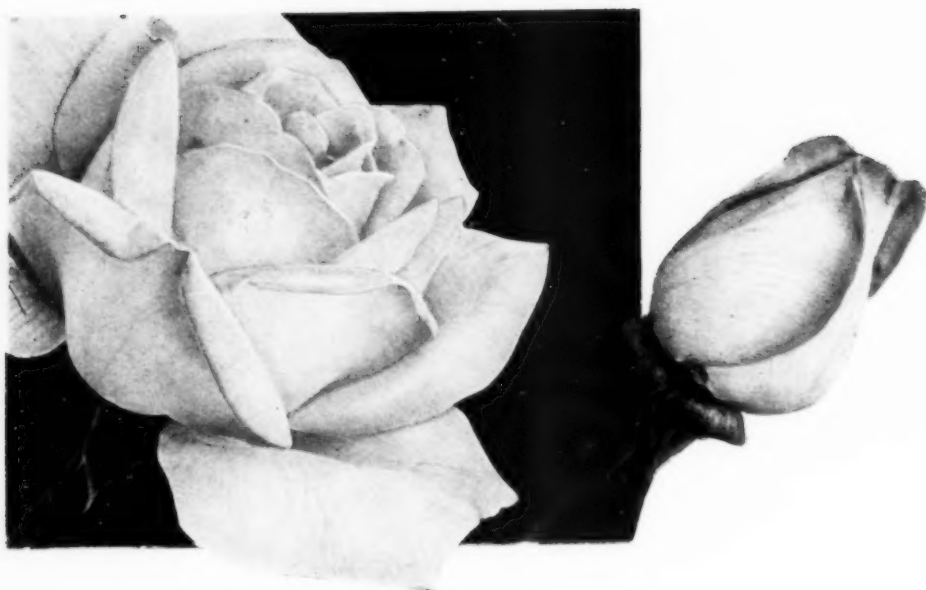
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development or for preservation if found growing wild.

Another sometimes treelike species is the Eurasian *V. lantana*, the wayfaring tree. It, too, can grow to a height of fifteen feet, usually in fairly dry soils. Its red fruits turn black in autumn. Like those of *V. prunifolium*, its leaves display a red coloration before falling.

The native arrowwood viburnum, *V. dentatum*, forms a 10-foot, broad, bushy shrub, which, like a number of other species, has a high shade tolerance, although when planted in partially darkened conditions, it responds better if sizable plants are used to start with. Its white flower clusters of early June are showy and are followed in autumn by blue-black fruits, which are attractive to native birds. Its lustrous, toothed leaves turn red in the fall. Such a plant can be a hardy stand-by in a large border or screen planting, or along a roadside, but has not too much place in small gardening. A similar species is the downy viburnum, *V. pubescens*. In fact, it and the arrowwood viburnum are sometimes confused in cultivation.

A stand-by in some of the large border plantings of some landscape architects of a generation or so ago was the wither rod viburnum, *V. cas-*

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sinoides. This tall, shade-tolerant native shrub of moist land has much to recommend it when growing freely without the restraint of pruning, to which it is generally subjected in small gardens. Its many rather small leaves are of a shining green. Its long persistent fruits are black by deep autumn, but are first pink.

The maple-leaf viburnum, *V. acerifolium*, is another shade-tolerant species. It has underplanting value in association with large trees, but has little or no place in intimate gardening.

#### MAPLE LEAF PATTERNS.

[Continued from page 15.]

*A. saccharinum*, silver maple, is a native fast-growing tree, forming an open, irregular crown and often reaching 130 feet in height. The bright green leaves are lobed more than halfway to the midrib, with a U-shaped sinus, and are silvery-white beneath. The leaves turn yellow in the fall. The reddish cluster flower buds are conspicuous on the stems, and the greenish-yellow flowers are borne in early spring. The tree has been widely used in the past for lawn and street plantings because of its ease in transplanting and rapid growth, but because of its brittle wood, which is damaged by wind and ice, it is gradually being replaced by more durable trees.

*A. saccharinum wieri*, Wier silver maple, is a clone with more deeply cut, narrow-lobed leaves and more pendulous branches. There are a great many intermediate stages between the Wier maple and silver maple, but all have brittle, weak wood.

*A. saccharum*, sugar maple, is a native broad tree with ascending branches, forming an upright, round-topped crown averaging about 100 feet high at maturity. The light green, wide, 3 to 5-lobed leaves turn an attractive yellow to orange-red color in the fall. The long, tapering terminal bud is longer than that of most maples. Attractive yellowish-green flowers are borne in drooping clusters before the leaves appear. The tree prefers a rich moist soil, but will grow in other soils except in a very dry location. In spite of its moderate rate of growth, the sugar maple is probably the most satisfactory of all maples for general planting and is good as a street or specimen tree for residential districts.

*A. saccharum monumentale*, sentry maple, is a formal, narrow, upright tree with nearly parallel sides. It is a good tree for narrow streets, specimens and tall screen plantings.

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## APPLE PEACH CHERRY

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#### BOXWOODS

True *Buxus Sempervirens*, very compact, deep dark green color, nice rounded shape and wide spread.

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	10	25	50
18 to 24 ins....	\$4.50	\$4.25	\$4.00
24 to 30 ins....	5.75	5.50	5.00
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Very full, well shaped and unusually nice specimen plants.

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40 to 50 ins....	\$4.50	\$4.25	\$4.00
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*A. negundo*, box elder, is a rapid-growing tree with a broad, round crown, reaching sixty feet at maturity. The light green, compound leaves are usually composed of three to five leaflets, but are occasionally seven to nine, as on the chart. The leaves often appear rusty in the summer and have a bright yellow to brown fall foliage color. The box elder is one of the hardiest, most drought-resistant maples and is used in the northwest as a windbreak or shelterbelt plant because of its rapid growth when young. The tree is adapted to a wide range of soil conditions, but is limited in its use in general landscape because of its brittle wood and susceptibility to insect pests.

*A. cissifolium* is an introduced small, round-headed tree with compound leaves. The light green, coarsely serrated leaflets turn red and yellow in the fall. It is a graceful specimen, border or mass plant for landscape use.

*A. griseum* is an introduced large, bushy shrub or small tree, with attractive cinnamon-brown exfoliating bark similar to that of the river birch. The dull green, compound leaves have three coarse, toothed leaflets that turn a yellowish color in the fall. The plant is useful for its attractive bark in the winter season.

ALEC STOVEKIN, of A. N. Pierson, Inc., Cromwell, Conn., is recovering at home from a slight heart attack which took him to the Middlesex hospital in May.

CONGRATULATIONS were given Clyde H. Heard, secretary-treasurer of the Iowa Nurserymen's Association, at the group's meeting July 18 on the arrival of a granddaughter born the night before. The proud father is William R. Heard, who is associated with his father in Heard's Landscape Nurseries, Des Moines.

ORGANIZED in 1889, the Hugh Britt Nursery, Bentonville, Ark., the oldest nursery in northwest Arkansas, celebrated its sixtieth anniversary the first week in May. The company was organized by George, Jim and Lee Britt, who operated it as Britt Bros. Nursery until 1894, when the name was changed to the Bentonville Wholesale Nursery and Jim Britt assumed sole ownership. In 1907 two other brothers, Arch and Hugh, went into partnership with Jim, and operated the firm until 1917. Hugh Britt became sole owner in that year, after the death of his brothers.

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Our Nursery grows larger and larger year after year . . .

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BETTER ROSEBUSHES . . . PLUS COURTEOUS, FAIR  
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## WHOLESALE GROWERS OF PAPERSHELL PECAN TREES

We specialize in growing quality pecan trees on our better-root stock. Faster growth, quicker bearing. Large list of varieties. Can furnish in lots of 10 to 10,000.

Also heavy-caliper, dormant-bud Peach, Plum, Apricot and Apple.

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# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## QUALITY.

It has been our invariable practice always to buy top quality when we purchased for resale miscellaneous items that we did not grow. Particularly did this apply to such items as bulbs, roses, etc. Only on one occasion did we deviate from this practice, and the customer reaction was an education.

Customers expect to be able to buy the top grade of plants from their local nurseryman. This does not mean they will not buy 69-cent rose plants at the neighborhood grocer or 5-cent tulip bulbs at the corner hardware store. But when they can afford it and want the best, they think only of the local nurseryman.

I have had friends laugh apologetically and show me a rose that they had babied into a vigorous plant, or shrug off a dead plant with, "Oh, that's one I got from the grocer." But from us they want plants for which they don't have to apologize.

In the past there has been considerable fuss about the cut-rate plants sold at grocery, hardware and drug stores, and when surpluses occur in certain items there will be again. But I question if these are really competing. After all, the customer does reserve the right to do his purchasing where he pleases, and there is no reason why we should get all the business. In our own personal purchasing we all take the same attitude.

I should think these remarks should also apply to florists, for, judging from their trade papers, there is considerably more concern about cut-rate and peddled flowers than about cheap nursery stock. It might tickle someone's vanity to buy an inexpensive bunch of short-stemmed roses to take home for the dinner table, but when he wants a corsage for his sweetheart, a bouquet for his wife's anniversary, flowers for a wedding or a funeral, he wants only top quality and he expects it from his local florist.

E. S. H.

## OFF-SEASON LAWN PLANTING.

For the past two or three years I have watched the planting of extensive grass areas by the state roads commission along the new sections of U. S. Highway 50 that it has been building.

Normally, we consider August, September and March the only favor-

able months in which to sow lawns. Late spring and early summer are particularly unfavorable, because it becomes so hot here in Maryland. The result of late sowing is usually a pure stand of crab grass or some other annual weed. On small areas we can obtain a good stand of grass by germinating the seeds under burlap and then removing the burlap as soon as the blades of grass show through the burlap. This is generally within four or five days.

The state roads commission has been sowing literally miles of right of way, and this year the sowing was done from April well into June. Much of the area was on graded slopes, often angles as steep as forty degrees. When the original cuts were made by the earth movers the topsoil was set aside

in giant piles, and these seem to have been pretty well utilized in regrading the shoulders. In some cases, though, the area sown appears to be just raw graded subsoil. The areas around culverts, the bottom of the drainage ditches and the very steepest slopes are sodded.

The grass seed is sown and fertilized as usual, and after sowing the whole area is covered with three or four inches of loosely spread hay. A large quantity is obviously used, for the areas must run into many acres. After the hay is spread, stakes are driven into the ground at staggered intervals, and radiating from each stake in spiderweb fashion is stretched binder twine to hold the hay down. The hay is not removed until the grass is well started, as there is not the danger of pulling up the young plants as there is in removing burlap.

The results seem to be quite good in spite of the fact that we had a three weeks' drought in late May and early June. The grass mixtures are obviously of the coarser types, and

## HARDY NATIVE AZALEAS

*Azalea calendulacea*, yellow to orange.

*Azalea bakeri*, red to crimson.

*Azalea arborescens*, white.

*Azalea roseum*, rose-pink.

*Azalea nudiflora*, light pink.

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the soil preparations do not compare with a Rototiller job.

The hay and the manner of fastening it down could be expensive, yet it may offer a suggestion for use in an emergency.

E. S. H.

### CHEMOTHERAPY IN PLANTS.

The other day a customer told me of a method he had of keeping catalpa sphinx larvae from eating the leaves of his *Catalpa bungei*. The method was to bore a one-inch hole into the center of the trunk, fill with sulphur powder and then plug the hole with a cork. The work was done in early spring while the tree was dormant. He claimed that the treatment was effective for two or three years and that he had been doing it for a number of years. I have known this customer for some time, and he is a man of obvious integrity and intelligence. If you have a sense of humor you will appreciate the fact that he originally got the idea from a veterinarian.

Yet, kidding aside, it is remotely possible that there is just enough sulphur absorbed to make the foliage unpalatable to the caterpillar and yet not be toxic to the plant. Whether the story has any foundation in fact or not, it does bring a number of questions to mind. For instance, the chemical composition of plant varieties that are disease-resistant must differ only slightly from that of susceptible varieties. Both insects and plant diseases are notoriously excellent botanists; in other words, they only attack certain hosts plants. Why will a chestnut blight come along and be so virulent in its attacks on the chestnut, and yet its relative, the oak, be immune and even some species of chestnut be highly resistant?

We cannot help looking on the idea of tree inoculations as quackery, yet the idea may not be so impossible at that. The roots' ability to absorb soil chemicals differentially makes an attack from that angle difficult, but, even there, we have a number of indicators. It is known, for instance, that certain plants can absorb selenium from the soil, making the leaves poisonous to insects and also, unfortunately, poisonous to humans. There is also some foundation to the claims of the organic gardeners that a soil rich in organic matter and soil nutrients grows plants that withstand attacks of insects and diseases better than those grown on poor soils. There is, however, no evidence that it makes them immune.

In the field of human medicine the discovery of the sulfa drugs and the



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	Per 1000
Norway Spruce, 2-yr., 0, 2 to 4 ins.	\$12.00
Norway Spruce, 2-yr., 0, 4 to 6 ins.	20.00
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Scotch Pine, 2-yr., 0, 3 to 6 ins.	20.00
Mugho Pine, 2-yr., 0, 2 to 4 ins.	30.00
Douglas Fir, 2-yr., 2 to 4 ins.	15.00
Douglas Fir, 2-yr., 4 to 6 ins.	25.00

### SHRUBS and TREES

	Per 1000
Barberry, Thunbergi, 4 to 6 ins.	\$ 9.00
Barberry, Thunbergi, 6 to 9 ins.	12.00
	Per 100
Dogwood, red-twigged, 6 to 12 ins.	\$ 6.00
Dogwood, yellow-twigged, 6 to 12 ins.	7.00
Dogwood, elegantissima, 1-yr. from pot.	20.00
Elder, red-berried, 8 to 15 ins.	6.00
Forsythia intermedia, 2-yr., x, sftwds.	5.00
Forsythia prunifolia, 2-yr., sftwds.	7.00
Forsythia, dwarf, 2-yr., sftwds.	8.00
Lonicera bella albidula, 1-yr., hwdws, 8 to 15 ins. up.	5.00
Lonicera morrowi, 1-yr., hwdws, 8 to 15 ins. up.	5.00
Lonicera sabell, 1-yr., hwdws, 8 to 15 ins. up.	8.00
Hydrangea A. G., 1-yr., hwdws, 8 to 15 ins. up.	12.00
Hydrangea P. G., 2-yr., x, sftwds.	12.00
Philadelphus Bouquet Blanc, 1-yr., hwdws.	6.00
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Privet, Amur River North, 2-yr., x, sftwds.	4.00
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Viburnum opulus sterile, 2-yr., sftwds.	12.00
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American Elm, 1 1/4 to 2-in.

Thurlow Willow, 5 to 6 ft.,  
up to 2-in.

Apple, 2 and 3-yr., up to 1-in.

Cherry, 1-yr., up to 1 1/16-in.

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Shrubs, Shade Trees, Peonies and  
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July Sale Per 100  
5 to 7-in. circumference.....\$ 9.50  
7 to 8-in. circumference..... 14.50  
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EVERGREENS, SHRUB LINERS.  
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antibiotics such as penicillin has almost completely changed the medical profession's concept of fighting disease. Here, again, minute chemical change within the body is sufficient to kill off the pathogenic organism. Is there any reason to believe that a similar discovery in plant pathology will not change our own concept of fighting plant diseases?

When one stops to think about our spraying methods, they too were all an outgrowth of the accidental discovery of the efficacy of copper sulphate in controlling mildew on grape. Maybe the whole idea of spraying has been a development down what one might call a sidetrack, and perhaps eventually the best method of insect and plant disease control will be from another direction.

Assuredly if there is to be any real solution in the fight against systemic diseases (those in the sap) such as chestnut blight, fire blight and maple wilt it must come in some other direction than from spraying. Similarly, the fight against virus diseases must come from some other method than spraying, although spraying does help control those carried by insects.

Perhaps the next century will bring us as great a plant discovery in this direction as was the importance of the discovery of plant hormones in the past century. E. S. H.

### TEXAS SHORT COURSE.

[Continued from page 22.]

cent Lysol solution dissolved in neutral roofing compound, zinc oxide in a petroleum varnish, or a merthiolate solution in any of the above compounds or orange shellac. Callous growth in camellias is extremely slow, and it is not uncommon to find cleaned lesion areas not grown over for many years.

Dr. W. J. McIlrath, department of plant physiology and pathology, described the water relation inside plants with particular reference to the transpiration and water-intake ratio. The discussion accounted for the physiology and anatomy of plants; however, Dr. McIlrath correlated these internal happenings with commercial nursery growing practices.

The next speaker was Dr. E. M. Hildebrand, department of plant physiology and pathology, who spoke on plant galls and overgrowths that are common on Texas ornamentals. He listed the probable causes of this hyperstimulated tissue, which include bacteria, insects, fungi and improper graftings. Control of these troubles can be accomplished by eradication

**Remember**

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Specimen Evergreens  
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1, 2 and 3-year.

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of the causal agent, by pruning of infected areas and, in the case of root galls, by crop rotation.

The morning's discussion closed with a most interesting lecture by Prof. D. A. Anderson, Texas forest service, who presented a talk on the use of chemically treated burlap for nursery operations. After extensive experiments with various compounds for the past several years, the Texas forest service has been using jute burlap treated with a solution of copper naphthenate and mineral spirits solvent for seedbed protection and for balled and burlapped stock. The cloth is treated by running it through large vats, and it is rolled on rollers to dry. Tests of untreated and treated cloth indicate that the copper naphthenate applied so as to give one and one-half per cent copper deposit will last four to five times longer than untreated cloth. Tests indicate there is no damaging effect to plant roots from the copper deposit.

#### Entomology.

Recent developments in the control of greenhouse pests were discussed by Professor DeWerth. Recommendations on the new insecticides, precautions to be taken in handling them and new methods of application were given.

Dr. F. D. Martin, department of entomology, listed effective controls for insects within pecans, an important crop in Texas.

Dr. V. A. Little, department of entomology, presented nurserymen with a new way of killing the red ant, or leaf-cutting ant, that does so much damage in nursery and home areas. Heretofore control measures have included the use of cyanide and other ineffective means. The newest control consists of using methyl bromide in one-pound cans. When the can is punctured, the fluid or gas flows from it into the hills by means of a rubber hose. Effective control of the entire hill is thus assured. However, this material is not long-lasting, and for permanent results a solution of six per cent Chlordane may be applied shortly after the methyl bromide treatment. Recent work at A. and M. College of Texas has proved the effectiveness of both of these controls.

Dr. H. G. Johnson, head of the department of entomology, summarized the effective insecticides available for nursery insect control and cautioned the nurserymen particularly in the purchase and use of benzene hexachloride. The killing agent in benzene hexachloride is the gamma isomer, and commercial products can

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of all kinds

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be obtained with this gamma isomer ranging from one per cent to ninety-six per cent. The disagreeable odor of this compound is dependent upon other isomers in the compound, and with the increased purity of the gamma isomer, the odor is less apparent. A six per cent gamma isomer benzene hexachloride compound can be used safely on most ornamental plants; however, for more delicate plants the use of a twelve per cent to thirty per cent compound is recommended because there will be less damage encountered.

### Humorous Speaker at Barbecue.

In the afternoon a typical Texas barbecue was served. The guest speaker was introduced as a Dr. R. G. Hunnington-Abbott, director of the Imperial Bureau of Horticulture, New Zealand, who told of recent advances in ornamental horticulture in New Zealand and of the great need for American dollars. New Zealand hoped to secure these dollars by flooding the United States with cheaply produced roses and other nursery stock, he said. In fact, contracts have already been made with dime stores in the United States, he stated.

After the initial shock produced by his statements, it was disclosed that Dr. Hunnington-Abbott was none other than the popular Dr. John Sperry, department of biology. Dr. Sperry has never been in New Zealand and calmed the audience by saying he felt no other country or state could produce better ornamental plants than Texas.

### Various Problems.

M. K. Thornton, department of agronomy, spoke on indications of deficiencies in plants and stressed the need for proper diagnosis of plant ills well in advance of plant sales. He stated that a healthy plant could always be sold, while a sick plant is seldom sold. The plant itself is the best indication of any irregularities in the soil or environment. The use of soil-testing kits by inexperienced operators is worse than no soil diagnosis. The method of lowering the pH of the high alkaline soils for Texas was described.

Prof. Roy Garrett, department of agricultural engineering, talked to the group on irrigation problems and provided a most interesting demonstration of factual overhead irrigation equipment. In Texas areas where low rainfall presents an irrigation problem, every nurseryman should have additional watering facilities. On a cost versus results basis, ditch irrigation has not proved so satisfac-

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Scions, Rooted Cuttings and 1 to 4-yr.-old plants.

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We will deliver any order of 10,000 or more plants direct to you. (Radius of 1,000 miles.)

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Lining-out Stock a Specialty

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tory as overhead sprinkler system watering. While the initial cost of the latter system is great, the increases in plant growth soon pay for the cost of installation.

Professor Brison related factors involved in successful transplanting and included a discussion of root growth on transplanted plants under various conditions. With many plants, particularly pecan trees, root growth does not initiate until some top growth is started. This fact accounts for the successful transplanting of pecan trees in the spring only.

Professor DeWerth closed the morning program by enumerating the proper-type fertilizers and methods of application for fertilizing shade trees. He stressed the need of a complete fertilizer high in nitrogen applied at the rate of two to four pounds for each inch in diameter of a tree breast high. For trees less than six inches in diameter, the rate should be two pounds per inch. The punch bar or compressed air drill method to provide holes two feet apart out to the spread of the limbs is the best way to apply fertilizer.

A list of new ornamental shrubs that are on trial at the A. and M. College of Texas nursery was presented to the nurserymen. It is sincerely hoped many of these shrubs will be successful in Texas and that distribution of the species may be accomplished quickly to increase the types of plants commonly grown in the state.

A short business session of the Texas Association of Nurserymen concluded one of the most successful meetings in the history of the association.

THE mailing address of Eggers Evergreen Home, Walla Walla, Wash., has been changed from Route 4 to Route 3.

CONSTRUCTION of a new shop and office on Savannah road, St. Joseph, Mo., has been completed by Rau Floral & Nursery Co., owned by John Rau and his son.

FORMAL opening of Shumaker Nurseries, Rushville, Ind., was held recently, following the erection of a 60x100-foot lath house, an office building and an attached propagating greenhouse and the moving of thousands of B&B plants from the firm's former sites at Cambridge City and North Vernon. Construction and moving work was begun in September, 1947, when Gorrell Shumaker, who operates the new firm, sold Shumaker's Birchmont Gardens, Cambridge City.

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**Apple, Pear and Mahaleb Seedlings.** Our blocks of seedlings are free from aphids and other insect pests.

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## Some Diseases

### NECROSIS AND YELLOWING OBSERVED IN AZALEAS.

An azalea trouble, the cause of which is still unidentified, has been observed during the past two years in the south. In 1947 the condition was not seen frequently, but in 1948 it was more widespread. Approximately ninety per cent of the plants died in two fields, while the remaining ones were inferior. Affected plants have been observed in North Carolina, Georgia, Alabama, Mississippi and Louisiana, according to an article by D. L. Gill in the Plant Disease Reporter for April 15.

In Coral Bells and other varieties of Kurume azaleas, the first symptom has been a chlorosis of the younger leaves. This usually resembles iron deficiency chlorosis, but is not corrected by spraying with ferrous sulphate. In some cases the chlorosis is general. Necrotic spots on the margins and in the interior of the leaves follow. The leaves soon fall, and the necrosis becomes evident in the newer leaves, which in turn fall. New leaves that develop are smaller and have a yellow color. The plant becomes misshapen from loss of leaves, and death follows the repeated production and shedding of new leaves.

Some plants have been seen to recover from the condition. In cooler weather plants seem better able to withstand the condition. On Indian azalea varieties the necrosis is present in the form of burning from the margins of the leaves inward. Root systems of diseased plants are large and well developed. The small feeder roots develop brown lesions and die back. This is more noticeable as the season advances.

The condition has been observed on a number of Kurume azalea varieties, Coral Bells being the most susceptible, followed by Hinodegiri. The difficulty occurs less frequently on Indian azalea varieties, with Pride of Mobile the most susceptible and Formosa the least.

Most of the affected plants observed have been grown without shade; in some instances similar plants grown under near-by lath shade remained healthy. A few scattered affected plants have been observed, however, in many lath house beds. In one nursery the condition was severe in the lath house, but as the season advanced the plants overcame it and made satisfactory growth. In culture on light soils in the open,

injury is less severe in the lower areas of the fields.

Several possible causes of the trouble, including drought, nutritional deficiency, soil-infesting organisms, virus, soil acidity and insecticide toxicity, have been considered, but as yet the cause has not been determined.

### AZALEA AND CAMELLIA FLOWER SPOT DISEASES.

Recent attention has been given by government research workers to a disease attacking camellias much like the flower spot disease concerning which control measures were worked out several years ago. Discussing the research work done by the United States Department of Agriculture in regard to these diseases, Dr. S. L. Emsweller, in an address before the

Texas Association of Nurserymen, offered this information as to control measures for both:

"The azalea flower spot disease was threatening the future of azaleas in the gulf coast area and along the Atlantic seaboard as far north as Norfolk, Va. As a result of our research, the causal organism was determined, its life history was worked out, and control measures were developed. This disease overwinters in the soil as small black bodies called sclerotia. When the temperature is favorable, the sclerotia germinate and produce tiny cup-shaped bodies that are filled with many thousands of spores. This development coincides with the opening of azalea flowers. Soon the spores are discharged into the air and, if the temperature and

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- Blueberry Plants
  - Popular hybrids
- Red Currants
  - Wildor and Perfection
- Red Rhubarb
  - Victoria
- Asparagus
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Price list on request.

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\$150.00 per 1000.  
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F. G. Anderson, Prop. ANNA, ILL.

moisture are favorable, the spores that fall on a flower germinate and produce small whitish spots. The infected flowers soon collapse and stick on the plant. These initial infections then produce spores of a second type on the petals. These are produced in great abundance and are spread from plant to plant by wind, rain and insects. They are responsible for the rapid spread of the disease following the primary infection. New sclerotia are formed on the old diseased flowers, and these fall to the ground, where they overwinter and start a new outbreak the next season.

"The disease may be controlled by spraying, preferably three times a week, with Parzate at one pound to 100 gallons of water, or with Dithane Z-78 at one and one-quarter pounds to 100 gallons. This past season Dr. D. L. Gill, of our staff stationed at the field laboratory, Spring Hill, Ala., has found that either a six per cent Dithane Z-78 dust or a six per cent Parzate dust was also effective. This spraying and dusting must be thorough and all the flowers covered with as light a coating as practicable.

"A similar flower-spot disease attacking camellias was first reported in this country in California in 1940. Dr. Gill has been looking for it in the Mobile area for several years. On March 21 of this year Dr. Gill, Dr. McClellan and I visited a garden in Georgia where this disease was said to be present. We found this to be true and obtained both sclerotia and the spore-producing cups. Judging from the damage done in this garden, the disease, if it should become widespread in the south, would greatly mar the value of camellias and thus injure the business of nurserymen who grow these plants for sale.

"Dr. Gill has also been working on camellia wilt and root rot. This disease first manifests itself on young plants as a yellowing of the foliage, usually followed by wilting and death of the plant. In late stages the roots are badly rotted, but sometimes the plants produce new roots from larger ones above where the old ones were killed. In some cases these new roots continue to grow, but more often they are killed. Such plants are usually stunted and frequently die after transplanting. Dr. Gill has observed losses of from ten to almost 100 per cent in coldframes and beds. These were plants one, two and three years from cuttings. He found the causal organism to be *Phytophthora cinnamomi* and isolated this organism from diseased specimens from the vicinity of Mobile as well as from Louisiana and South Carolina. The control measures involve a combina-



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No. 3, 2/16-in.....	7.00

#### Native Plum Seedlings

No. 1, 3/16-in. and up.....	15.00
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Write for wholesale prices on other seedlings: Chinese Elm, Russian Olive, Russian Mulberry and Caragana Pea Shrub.

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### STUDY SPOT ANTHRACNOSE OF FLOWERING DOGWOOD.

Results of a roadside survey taken in 1948 to find spot anthracnose of flowering dogwood in Maryland and adjoining sections of Delaware, Virginia and West Virginia are summarized in an article by R. A. Jehle and Anna E. Jenkins in the Plant Disease Reporter for April 15. Several nurseries in various parts of Maryland were also examined during the survey.

In the southern part of Maryland the disease was found to be severe and prevalent, with a decrease in severity to the north, until the spot anthracnose seemed to disappear entirely just north of the thirty-ninth parallel of latitude. Here the disease was found only in three localities, in Queen Anne's county, Anne Arundel county and Montgomery county, and was of minor importance in all three cases. It also was found in Accomac county, Virginia, and in Sussex county, in southern Delaware.

On country roadside groups of flowering dogwood south of the thirty-ninth parallel, spot anthracnose was discovered on much of the growth examined. It was much more prevalent and severe on low trees and on those cut back by roadside crews than it was on higher growths and on growth located farther from the roadsides. The disease may have been spread along the highways by roadside crews.

In Pocomoke, Snow Hill, Salisbury, Takoma Park and Annapolis, the search for the spot anthracnose on flowering dogwood growing in private yards and along streets resulted in practically no findings of the disease. The only instance in which the disease was located on flowering dogwood trees in these cities was on a single overhanging branch on a street tree. The street was narrow, and the branch was brushed by trucks as they passed.

In connection with routine nurs-

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Inquire for listed Native Stock.

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"Over Half a Century"

FOREST GROVE, OREGON

ery inspection, the spot anthracnose was found on two flowering dogwood trees in a Charles county nursery and on one tree in a nursery in Caroline county.

### SEATTLE FLOWER SHOW.

The main event of Seattle's first City of Flowers festival held in May, was the flower show held in the Seattle civic auditorium, where exhibits by nurserymen, florists and amateur gardeners occupied the full 70,000 square feet of available floor space. Approximately 47,000 persons viewed the displays during the five days that the flower show was open to the public.

The title "City of Flowers" was chosen by Seattle citizens for their city after considerable discussion. The names of so many individual flowers were suggested that it was difficult to determine the most popular, hence the term was chosen that would be all-inclusive. This year's festival started with an all-flower parade and continued with the flower show. Plans are well established to make the event an annual affair.

Plans for the flower show were made largely through the cooperation of the Washington State Nurserymen's Association, Allied Florists

## "COME UP AND SEE US SOMETIME"

A cordial invitation is extended  
to all visitors to San Francisco to  
stop at our nursery near Portland,  
either before or after the con-  
vention.

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Order now for fall delivery on  
Dwarf Spruce.

- 200 *Picea abies conica*,  
18 to 24 ins. high.
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12 to 15-in. spread.
- 75 *Picea abies pumila*,  
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- 50 *Picea abies repens*,  
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\$3.75 each, B&B.

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of Seattle, local garden clubs and various civic organizations. Judges for the nurserymen's exhibits were Brian O. Mulligan, director of the University of Washington Arboretum; Paul D. Brown, Seattle garden authority, and M. L. Lawrence, Portland, Ore. On the executive committee for the festival were John Van Dyke, president of the Washington State Nurserymen's Association; Dr. John H. Hanley, garden editor of the Seattle Post-Intelligencer, and Cecil Solly, garden editor of the Seattle Times.

In the commercial garden plot exhibits occupying 450 square feet, Campus Nursery, Seattle, won first place with a garden designed by Bryan Taylor. The garden was surrounded by a cedar picket fence, and sandstone walls separated various parts of the display. Plants used included a large number of flowering trees and shrubs, perennials and bulbs. A sandstone walk curved gracefully through the exhibit. Second prize in this group was awarded to the Malmo Nurseries & Seed Stores, Seattle, for a display of flowering trees and shrubs.

L. N. Roberson Co., Seattle, won a gold medal for its first-place winner, which was competing in the group of commercial gardens occupying an area of 300 square feet. Included in the display were many interesting rock garden, bog and alpine plants arranged in a naturalistic garden. Hopkins Nursery, Bothell, won second place in this division with a naturalistic wild garden of trees and shrubs.

Other nurseries exhibiting in the show included Strander Evergreen Nurseries, Seattle, with a display of trees and shrubs; Richmond Nurseries, Richmond Beach, with a nursery-like display of evergreens and other plants, and Bonnell Nurseries, Renton.

## SAN MATEO GRADUATES FIRST HORTICULTURE CLASS.

San Mateo Junior College, San Mateo, Calif., held a special graduation exercise June 15 for the first twelve graduates of the new training program in ornamental horticulture. The group, which included war veterans, men with nursery and greenhouse experience and high school graduates without any experience, completed the 2-year course under the direction of George A. Mangus, department of agriculture, San Mateo Junior College. Several were sons of nurserymen.

The course was sponsored by sev-

eral horticultural groups, some of which were represented on the platform during the graduation ceremonies. These groups included the California Horticultural Council, the California Association of Nurserymen, the California Arborists' Association and several peninsula gardeners' associations. More than 200 guests were in attendance, including the wives of some of the graduates.

The graduates were Reynolds F. Damm, Laurence F. Day, S. Wallace Duplessis, Burton E. Edwards, Leslie W. Harrison, Richard Gordon Lander, George H. Rowell, John R. Van Auken, Paul von Kempf, Charles P. Vonogas, Jack T. Weir and Carl L. Wertz.

On the program were addresses by James R. Tormey, director of San Mateo Junior College; Charles S. Morris, president of the college; Leslie Mayne, president of the California Horticultural Council; Wesley P. Smith, state director of vocational education, and Jorgen C. Johansen, president of the board of directors of the junior college district.

All of the graduates have positions in nurseries in the Bay area.

#### CALIFORNIA NOTES.

During June, business at retail nurseries in the Bay area was in a slight summer slump. However, most nurserymen believed that it was not as complete a letdown as has occurred in past years, and some even reported that spring business was continuing longer than in any recent year.

Donald Perry, Sunnyside Nursery, San Anselmo; Frank James, E. James Nursery, Oakland; Jack McDonnell, McDonnell Nursery, Oakland, and Charles Burr, California Garden Supply, Belmont, have returned from buying trips to the northwest. They report that most kinds of nursery stock are about as plentiful as they were a year ago and that the shortages of the past one or two years have not been made up yet. Prices seem to be about the same as they were a year ago.

Raymond T. Burr, Burr-Christian Nursery, Hayward, is doing only office work for a few weeks because of a strained back which resulted from an attempt to lift heavy plants. His partner, J. B. Christian, is still in the hospital and is expected to be there for several more months.

James F. Clarke, W. B. Clarke & Co., San Jose, has had his arm in a sling for several weeks because of a severe cut on his hand.

Hollis Gray has announced the opening of the new branch of Cot-

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EVERGREENS  
SHADE AND FLOWERING TREES  
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Reservations made for 1949-50 season.  
Good varieties—excellent quality. Write for list.

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Our Complete Trade Price List of  
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ous Bulbs is now ready for distribu-  
tion. Your copy will be mailed promptly  
upon request.

EDGAR L. KLINE  
Lily Specialist Lake Grove, Oregon



tage Seed & Nursery Co., at 2025 Solano avenue, Vallejo. The new salesyard, for retail trade only, will contain a complete assortment of garden accessories, seeds and bulbs, and there will be a one-acre ornamental plant display grounds and a one-acre plot devoted to the growing on of lining-out stock.

James Crombie, Crombie Nursery, Oakland, addressed the Pacific Coast Horticultural Society at its recent meeting, giving general information on the growing of roses and telling his opinion of some of the newer kinds.

Dr. J. E. Knott, chairman of the department of vegetable crops, University of California, Davis, has been reelected president of the California Seed Council.

Camellia blossom spot, a serious coastal disease of this crop, has been reported for the first time in Fresno county.

Juel Christensen, Christensen Nursery Co., Belmont, has announced the closing of his salesyard at 343 West Portal avenue, San Francisco. The property has been sold for store developments.

Charles Burr, California Garden Supply, has moved into his new home at Palo Alto.

Bruce Martin, deputy agricultural commissioner of San Mateo county, was married recently to Mrs. Ildra Devendorf, Menlo Park.

William Mathias has been appointed manager of the Gary Garden Center, Monrovia. He has been in the nursery business for more than twenty years.

The Camellia Cottage Nursery, 3536 Double drive, is owned and operated by Arthur W. Guy. The nursery will grow camellias for the wholesale trade.

Dr. Kenneth Baker, plant pathologist, University of California at Los Angeles, who has been working with ornamental plantmen in the state, is recovering from a serious illness.

Carl Salbach, Berkeley, iris grower, recently gave a talk to the San Francisco Business Men's Garden Club.

California seedsmen are not in complete accord regarding distribution of free seeds and bulbs as part of an advertising campaign by non-nursery organizations. As a result, Harry Marks, Germain Seed & Plant Co., Los Angeles, president of the California Seed Association, has appointed a committee to discuss this subject and report to the next meeting of the directors of the association. The committee consists of Arthur R. Navlet, chairman; Fred McNabb,

## WANT ADS

Help and Situation Wanted and For Sale advertisements.

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Lines: 25¢ line; minimum order \$2.00

### HELP WANTED

Young man, approximately 35 to 45 years old, for mail-order department of leading eastern nursery. Must be good correspondent, with a knowledge of ornamental nursery stock, roses, perennials, etc. Interest in advertising and selling an asset. Excellent opportunity for advancement. In reply, kindly state age, education, salary desired, present employment and all other essential particulars. All replies strictly confidential. Address Box 631, care of American Nurseryman.

### HELP WANTED

Salesman for landscape and nursery contracting for one of the largest and oldest concerns in Philadelphia, offering a highly profitable position. Sales unlimited. Salary, commission and bonus.

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Lancaster Pike Philadelphia 31, Pa.

### HELP WANTED

Man to work on sales lot. Prefer one of middle age. To man and wife without children will give free rent in furnished house. (Owner and wife must live with 6 months of the year.) Must know how to B&B, wait on trade and have some knowledge of assorted stock.

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Farmington, Mich.

### SITUATION WANTED

Nursery salesman, able to draw and execute landscape plans. Give full particulars about position in first letter.

Address Box 635, care of American Nurseryman.

**WANTED**—To design landscape plans for nurseries on a 10-per-cent-of-the-cost-of-material basis. Send a rough sketch, giving exact dimensions, showing location of walks, drives, windows, doors, etc. Will design a detailed planting plan to scale. E. J. BAKER, Landscape Architect, Crawfordsville, Ind.

**FOR SALE** — Morningglade Nurseries, at Sioux City, Ia. Only nursery growing a general line of nursery stock in a community of 100,000 population. 9 acres with residence and large display house. 20 acres additional under lease. Well established landscape and nursery business of over 50 years at Sioux City. Reason:—When you reach that proverbial "three score and ten" its time to ease up. If interested, write A. R. TOOTHAKER, owner, 4312 Orleans Ave., Sioux City, Ia.

**HELP WANTED** — Manager wanted for medium size camellia and azalea nursery now doing nice business in Georgia. Excellent location; fine, complete established stock. Salary and percentage of sales. Fine opportunity for expansion and possible ownership later if prove ability. Must know camellias and azaleas and have well rounded qualifications to take over completely as soon as familiar with nursery. Pleasing personality and sales ability most important. Give full particulars and references in own handwriting. Write Box 637, care of American Nurseryman.

William Schoenfeld, Louise Elbeck and Dave Cuthbertson.

Clarence Hoff, Hallawell Seed Co., San Francisco, has returned from a vacation in the southern part of the state.

W. B. B.

### FOR SALE

Mail-order nursery and seed business. Centrally located. Well established trade-mark and name. Good storage and shipping facilities. All mail-order records and files up to date, in first-class condition to continue business. Address box 634, care of American Nurseryman.

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Large Connecticut Nursery. Splendid location on main highway. Close to three good-size cities. A well established and profitable business as well as a fine 125-acre property. Has lovely home. Is fully stocked and equipped and is a real bargain for only \$60,000.00. Terms arranged.

Write, HORTICULTURAL REALTY CO., 135-18 Northern Blvd., Flushing, L. I., N. Y., exclusive agent.

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Old-established nursery and landscape business in the south. Priced at about half its value. Good reason for selling. Write for details.

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Well established nursery. Nineteen acres of nursery stock, fruit trees and small fruit. Adjacent to a rapidly growing town of 30,000. Price: \$35,000.00, including all equipment, trucks, tractors and machinery. A set-up, ready for business. Owner wishes to retire.

GATES NURSERY, Rapid City, S. D.

### SITUATION WANTED

College graduate, forestry major, with elective in nursery management, desires position with landscape nursery in landscape planting or field work. Have three seasons of general nursery experience, planting and caring for landscape trees, shrubs and lawns. For further information write: L. R. IPSEN, 543 Pammel Court, Ames, Iowa.

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Thoroughly experienced and capable in all phases of landscape and nursery operations, 15 years' experience; college degree. Wish position with reliable firm. Prefer eastern Massachusetts. Available soon. For full details write box 630, care of American Nurseryman.

### SITUATION WANTED

Nursery manager, landscape architect and salesman desires connection with reliable nursery. Twenty years' experience designing and selling landscape developments of any size. Full knowledge of plant materials. Commission with drawing and car expenses. Address Box 633, care of American Nurseryman.

**BUSINESS STATISTICS.**

[Concluded from page 6.]

seeking to hold on to their jobs will perform more efficiently and more industriously than was the case during the lush period following the war.

As stated at the outset, current business varies, in ups and downs, from industry to industry at the present time. In the textile field the readjustment began two years before it was thought of in the automobile industry. Hence, while the nurseryman may find it instructive to keep posted on the business indexes in other fields, there are elements in the situation which make his own a case apart. Shortage of labor during the war and afterward curtailed the supply of nursery stock. It also hampered the filling of landscape planting orders, of which there is still a carry-over on the books of some firms. The nursery business had not gained a level of prosperity, after the depression, when the late war began. It is, consequently, not overextended either in acreage or personnel. The victory garden program stimulated the American public greatly as regards home planting, and the effect is still shown in many lines, including our own. The agricultural phases of the industry which have hampered it at other times may favor it now. From the nurserymen's point of view, the present outlook is quite favorable.

MRS. J. R. DODD, Dodd's Nursery, St. Augustine, Fla., flew to Chicago recently to attend the Pilots' international convention.

GLEN C. GILMORE, president of the Gilmore Plant & Bulb Co., Julian, N. C., and of the Piedmont Wholesale Florist Co., Greensboro, has been appointed a member of the North Carolina state board of agriculture for a 6-year term by Gov. W. Kerr Scott. Mr. Gilmore has served twice as president of the North Carolina Nurserymen's Association.

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Collectors of Tree, Shrub and Wild Flower Seeds  
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**E. C. MORAN** Stanford, Mont.

**LOVELL PEACH PITs**

	Per bushel
1 to 5 bu.....	\$3.25
5 to 25 bu.....	3.10
25 to 100 bu.....	3.00
100 bu. up.....	2.75

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**LAWN SEED**

Blended to Your Specifications

**STANDARD LAWN SEED**  
**MIXTURES and STRAIGHT GRASSES**

**LAWN SEED**

Cartoned or Bulk

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Priced for Nurserymen and Landscape Gardeners.

Highest Quality Grasses Only.

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Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

**LOVELL  
PEACH PITs**

	Per Bu.
1 to 5 bu.....	\$3.00
5 to 25 bu.....	2.85
25 to 100 bu.....	2.75
100 or more.....	2.50

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**KELLY BROS. NURSERIES, Inc.**  
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**PANSY SEEDS**

**Garden State Giant**, the de luxe pansy. Developed in the heart of New Jersey, this strain, with its vigorous, yet compact growth and flower petals of heavy substance, has a remarkable resistance to summer heat. The large flowers include all the pansy colors, with a good quantity of those rich, deep shades so much admired. Truly a pansy which will sell when others go begging.

Pkt., 75¢; ¼ oz., \$3.00; oz., \$10.00.

**New, Extra-dwarf Swiss Giants.** A special collection of extra-compact habit with large blooms.

Pkt., 75¢; ¼ oz., \$3.00; oz., \$10.00.

**Special Formula Swiss Giants Mixture.** Uniformly compact with waved blooms that seem frilled. A magnificent blend of Swiss Giants, that surpasses in form and range any we have seen.

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**Trimardeau or Bedding Pansy.** Red, white, yellow, blue and mixed.

Pkt., 35¢; ¼ oz., \$1.50; oz., \$4.50.

Write for your copy of our catalog.

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NEW BRUNSWICK, N. J.

**PEACH PITs**

California Lovell Seeds  
also

Apricot and Myrobalan Seeds  
1949 crop

By ton or car.

Write for prices.

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#### HARDY AZALEA LINERS.

Kaempferi—Fedora, Carmen, Louise, Mme. Butterfly, Atlanta, Also, Hinodagiri, Ledifolia Alba, Well branched, 6 to 8 ins., \$45.00 per 100. Send for sample photo. Pieris Japonica, 8 to 10 ins., \$45.00 per 100. No packing charge. Cash with order.

#### GREENSTOCK NURSERY

(Route 112, between Station and Coram)  
Port Jefferson Station, L. I., N. Y.

#### 50,000 AZALEA TRANSPLANTS.

Indica alba, Mary, Hinodagiri, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink kaempferi.

Very heavy rooted.  
14c each in 1000 lots; 16½c each in 100 lots.  
Packing and shipping extra.

#### DEKALB NURSERIES, Inc.

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### AZALEAS.

Thousands of beautiful plants in many varieties. Now booking orders for fall. Place your order early to avoid disappointment.

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### BERRY PLANTS

POT-GROWN STRAWBERRY PLANTS, make big growth before fall—bear this fall and next spring. Everbearers, Gem and Streamliner, June bearers, 10 kinds, \$10.00 per 100. Plant now. Compare our prices. Pot-grown plants far exceed growth of field plants. WARREN SHINN'S NURSERY, Woodbury, N. J.

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OREGON-GROWN CAMELLIAS. Healthy rooted cuttings, liners from finest stock plants in Pacific Northwest. Most popular varieties; many rare varieties, featuring Finlandia (white), Pres. Lincoln (red). Stock available for immediate shipment. Space now available for new rooting contracts.

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PINUS RADIATA.

Hardy, well established liners from Monrovia Nursery's "Profit-Proved" stock.  
In 2½-in. pots.  
\$12.00 per 100, F.O.B. Monrovia.

#### MONROVIA NURSERY CO.

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#### PICEA PUNGENS GLAUCOA.

Bare-root Stock — Packed in Wet Moss. Prices: Each, incl. packing, F.O.B. nursery.

Full color range—Bed run.

Order Lots: 10 to 50 51 to 500 Over 500

X, 4 to 8 ins. .... \$0.15 \$0.13 \$0.12

XX, 6 to 12 ins. .... .35 .31 .28

XXX Selected Stock—Order Lots: 10 to 50.

Color 12 to 18 ins. 18 to 24 ins.

Blue-greens ..... \$0.90 \$1.50

Full color range ..... 1.15 1.75

Medium blues ..... 1.40 2.00

Silver or blue shiners.... 2.25 3.00

10 per cent discount for order lots 51 to 500.

20 per cent discount for orders over 500.

Add 25c per tree for B&B or C.S. pots.

Cash with order or before shipment.

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16 Summer St. Weston 93, Mass.

PYRACANTHA FORMOSANA—\$15.00 per 100

(The large RED berry.)

Booking orders now for fall delivery.

Grown from cuttings. Shipped to you from

2-in. pots. True, beautiful plants with ex-

cellent root system. Terms: Cash.

EAST COAST GREENHOUSES

Kingstree, S. C.

Block of  
COLORADO SPRUCE  
and  
ENGELMANN SPRUCE  
Up to 6 ft.  
EVERGREEN NURSERY  
Kylertown, Pa.

### LINING-OUT STOCK.

Out of 2½-in. rose pots.

	Per 100
Pyracantha lalandi .....	\$15.00
Pyracantha pauciflora .....	17.00
Lonicera heckrotti .....	15.00
Euonymus japonica .....	18.00
Juniperus sabinia .....	18.00
Juniperus sabinia Von Ehron .....	18.00
Juniperus pfitzeriana .....	18.00
Juniperus scopulorum kenzoni (The Dewdrop Juniper) grafts .....	50.00

All the above are well established plants

out of 2½-in. deep rose pots. Minimum order,

50 of a kind. No packing charge for cash with

order.

KENTONS NURSERY Dover, Okla.

### LINING-OUT STOCK.

EVERGREENS, potted.

	Pot size	Per 100
Taxus cuspidata .....	2½ to 2½-in.	\$22.50
Taxus hicksii .....	2½-in.	25.00
Thuja pyramidalis .....	2½-in.	20.00
Thuja pyramidalis, Imp. ....	2½-in.	20.00
Thuja woodwardii .....	2½-in.	17.50

SHRUBS.

Deutzia gracilis ..... 2-in. | 10.00 |



## DAHLIA OR TREE LABELS.

	Priced per 1000
3 1/2 x 5/8 ins., notched, not wired...	Plain Painted \$2.50
3 1/2 x 5/8 ins., wired...	3.00

## POT LABELS.

4x5 ins. (cartons 1000 each)...	2.50
5x5 ins. (cartons 1000 each)...	2.75
6x5 ins. (cartons 1000 each)...	3.25

## Priced per carton.

8x5 ins. (cartons 500 each)...	2.50
10x5 ins. (cartons 500 each)...	3.00

## GARDEN STAKES.

8x 1/2 ins. (cartons 250 each)...	2.00
10x 1/2 ins. (cartons 250 each)...	2.25
12x1 1/2 ins. (cartons 100 each)...	1.25

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOHO & HOOKER Youngstown 2, Ohio

## CAMOSHADE.

**WAR SURPLUS CAMOUFLAGE NETTING.**  
Just the thing for a new partial-shade house. Hundreds now in use for sun, wind and frost protection. They are being used to shade azaleas, camellias, mums, seed beds, cuttings and tender plants. Makes attractive covering for salesyards. Also for all other uses in the nursery and floral industry where partial shade and plant protection is necessary. Treated against mildew and rot. Will last for years. Most economical to use. 3 sizes available now. F.O.B. our shipping point. Supply limited.

22 ft. x 22 ft.	\$ 8.25 each
29 ft. x 29 ft.	9.95 each
36 ft. x 45 ft.	14.25 each

## WILSON BROS.

Newsome 6, Texas

Summer is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, galvanized with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN E. A. FARLEY  
P. O. Box 946 3333 Gentilly Blvd.  
Columbus, Miss. New Orleans, La.

## SPECIAL OFFER—BIG SAVING!

Three cars, solid Rattan Bamboo Cane Stakes, Green Dyed—far superior to the hollow cane. Florists, nurserymen and dealers have accepted this as the finest cane for staking in existence. Order immediately by the bale. Shipped direct from the car.

Bale of 2000	Bale of 2000
1-ft. ....	\$ 5.90
1 1/2-ft. ....	7.95
2-ft. ....	10.60
2 1/2-ft. ....	13.40

## F.O.B. Chicago.

**AMERICAN FLORIST SUPPLY CO.**  
A Division of American Bulb Co.  
1335 W. Randolph St. Chicago 7, Ill.

## IMPORTED CHINESE TONKIN CANES.

Strong—smooth—long-lasting.  
The best Bamboo plant stake.

	Contents	Price per bale
4 ft., 1/2 to 3/4 in. diam.	500	\$19.50
6 ft., 3/8 to 1/2 in. diam.	250	14.75
6 ft., 1/2 to 3/4 in. diam.	200	13.50
7 ft., 3/4 to 1 in. diam.	150	15.25
8 ft., 1 to 1 1/4 in. diam.	100	13.00

Bale lots only. Quantity discounts: 10 bales up less 5 per cent, 25 bales up less 7 1/2 per cent.

McHUTCHISON & CO.  
95 Chambers St. New York 7, N. Y.

## PLANT BOXES.

**KNOCK-DOWN PLANT BOXES.**  
Ends of good grade southern Yellow Pine, sides and bottoms of one piece 1/4-in. Masonite.

Standard specification, inside measurements.

12x5x5	\$12.00 per 100
16x5x5	15.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

**HIGHTOWER BOX & TANK CO.**  
Birmingham, Ala.

## JUNIOR TOP DRESSING.

A machine-processed mixture of approximately 80 per cent slightly decomposed Peat and 20 per cent sharp sand. Preferred by many florists and nurserymen for seed beds, flats and work in heavy soil. pH 4.8 to 5. F.O.B. plant.

2 to 25 Four-bu. bags.	\$1.75 each
25 to 50 Four-bu. bags.	1.65 each

**JUNIOR PEAT CO.**  
60 Pearl St. Lyons, N. Y.

## HIGH NITROGEN HORTICULTURAL PEAT.

Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.

**COLBY PIONEER PEAT CO., Inc.**  
Hantlontown, Iowa

## SPRAY BOARDS.

Good-quality spray boards, from southern Yellow Pine.

16x2 1/2 x 1/4	Each \$0.02
14x2 1/2 x 1/4	.01

All other sizes quoted on request. Prices F.O.B. Birmingham. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

**HIGHTOWER BOX & TANK CO.**  
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## CAMOUFLAGE WIRE.

Excellent protection against frost and sun. Used over beds, shade houses, greenhouses, sales grounds, etc., with satisfaction by hundreds of growers. Rolls, 6 ft. wide by 75 ft. long. Consists of steel wool on pliable, welded wire fencing. Only \$6.00 per roll, cash with order. Large lots quoted.

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Exmore, Va.

## PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 3 lbs. per loose bushel. 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.60 each; 10 or more, \$1.50 each.

**COLBY PIONEER PEAT CO., Inc.**  
Hantlontown, Iowa

## MINNESOTA WHITE CEDAR FLATS.

12x16x2 3/4	\$18.25 per 100
14x20x2 3/4	22.00 per 100
14x20x3 3/4	25.00 per 100

Other sizes quoted on request. Also crating and other lumber, Aspen and Pine. F.O.B. Cook, Minn. Attach check.

**H. C. HILL & SONS, Cook, Minn.**

## NURSERY REQUISITES.

Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.

Catalog on request.  
Since 1900.

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Flora Dale (Adams County), Pa.

## SPHAGNUM MOSS.

Clean, long-fibered, well pressed burlapped bales of standard size, \$1.25 per bale, F.O.B. City Point. Cash with order. Write for prices on large lots. Immediate shipment.

**THOMAS RESSEL**  
City Point, Wis.

## WISCONSIN'S QUALITY SPHAGNUM

**MOSS.**  
Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.

Trucked when feasible.  
**WARRENS MOSS CO., Box 7, Warrens, Wis.**

**REDWOOD PLANTER TUBS**, beautifully designed, well constructed of seasoned California redwood. Treated to prevent weather stain. Many sizes. Write for catalog and price list.

**BETTER WOODCRAFT**  
Rosemead, Calif.

**GIBRALTAR Frost Covers** pay for themselves. Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. **NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.**

**CEDAR STAKES** last a long time. Per 100: 4-ft., \$11.00; 3-ft., \$9.00; 2-ft., \$7.00. They are small trimmed tree trunks. Shipped F.O.B. on cash with order. **J. MILLER POTTER NURSERY, East Springfield, N. Y.**

**PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.**

**J. GARLAND HILL, Dept. A, Seaford, Del.**

## WANTED

**WANTED TO BUY** for fall or spring. Juniperus virginiana pyramidaliformis hillii, 3 to 4 and 4 to 5 ft., B&B. Alpine Currant (Ribes alpinum), 12 to 15 and 15 to 18 in.

Quote or place us on your mailing list.

**NICOLLET COUNTY NURSERY**  
St. Peter, Minn.

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**PERENNIALS PREFERRED**, by Helen Van Pelt Wilson, \$3.00.

**THE FRIENDLY EVERGREENS**, by L. L. Kumlien, \$6.00.

**LILACS FOR AMERICA**, by John C. Winter, \$1.00.

**CRAB APPLES FOR AMERICA**, by Donald Wyman, \$1.00.

**BEGINNING IN THE NURSERY BUSINESS**, by John J. Pinney, 50c.

**DEVELOPING NURSERY SALES AND DISPLAY GROUNDS**, by Harold E. Hunsiker, \$1.00.

**THE BOOK OF PERENNIALS**, by A. C. Hottes, \$2.75.

## Order from

**AMERICAN NURSERYMAN**  
343 South Dearborn St. Chicago 4, Ill.

## TEST BLUEBERRY SOILS.

A good air supply for the roots is one of the chief requirements for blueberry plants. Plenty of moisture, good soil drainage and an adequate supply of iron, manganese and nitrogen, preferably in the ammonium form, also are essential to the successful growing of the fruit.

With a shallow, fibrous root system, wild blueberries grow largely in the leaf mold and humus above a year-around water table in their natural habitat of lowland swamps, according to Dr. John C. Cain, pomologist at the New York state agricultural experiment station, Geneva. Thus far, most successful commercial plantings of improved varieties are located on acid peat bogs and sandy or peaty flatlands; in other words, on soils porous enough for free movement of air and water and with an adequate year-around water supply.

In an effort to find ways of growing highbush blueberries under diversified soil and climatic conditions, field and greenhouse plantings have been made at the experiment station. In these tests, vigorous growth has resulted on wet, poorly drained soils when the plants were set on mounds with sawdust incorporated with the soil and used as a mulch, and ammonium sulphate used as a fertilizer.

Other blueberry plants are doing well on a high, well drained knoll with a heavy sawdust mulch to conserve moisture. Both soils are fairly alkaline with pH 6 or above. On the other hand, plants on a clay soil acidified to pH 4.5 failed even when well supplied with nutrients, emphasizing again the importance of aeration.

In sand cultures at Geneva, Dr. Cain has grown blueberries at relatively low levels of potassium, calcium and phosphorus as compared with fruit trees. However, they appear to have a high requirement for iron, manganese and possibly magnesium. The plants respond vigorously to nitrogen in the ammonium form.

**ERNEST KRUSE** recently bought eleven acres adjoining his Wheeling Nurseries, Wheeling, Ill., on the north. Part of the land already is occupied by lining-out stock in evergreens and shrubs. He again is producing bent grass sod and stolons of type 3-15. His success with roses in Cloverset pots in recent seasons has led him to offer a variety of the better shrubs in the same containers, by which he expects to obtain better prices and have fewer losses than with bare-root shrubs.



## Letters from Readers

### FOOD FROM GLEDITSIA.

I am interested in the picture of the tree on the cover of the June 15 issue of the American Nurseryman. Do you know that a tree of the gleditsia selected strain, not even one-fifth as big as the one in that illustration, has produced 250 pounds of bean pods with a sugar content of more than thirty per cent and, also, the whole of agricultural science is ignoring this fact, which is of such importance?

J. Russell Smith,  
Swarthmore, Pa.

### CLEYERA JAPONICA.

The first specimen I saw of this wonderful broad-leaved evergreen shrub was in 1926 at the old Laughlin estate, at Zellwood, Fla. My mentor, M. J. Daetwyler, named it *Ternstroemia japonica*. It was fairly erect-growing, fifteen feet high, had ovate-spatulate leaves round-ended, about the size of a mountain laurel leaf, but thicker, glossier and rather more symmetrically arranged. Bailey's *Cyclopedia* described it as "an old greenhouse plant." Up to that time it was rarely to be found growing outdoors; indeed, not until 1944 did I run across another specimen, this time at the Cox Mansion, at Waynesboro, Ga. This one, off the end of the tall colonnade, was fully eighteen feet high and in May was in full bloom, with clusters of waxy, creamy flowers along the stems. These, I was to discover four years later, turn into small, rosy plum-shaped fruits, and inside the flesh are bright red seeds.

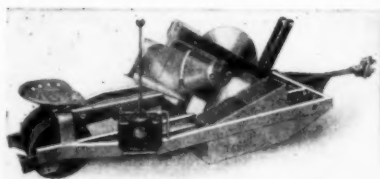
So it took me a long time to make the acquaintance of *Cleyera japonica*, the old *ternstroemia*. But it has been worth the patience. A few Florida and gulf coast nurseries now offer it as a handsome border or foundation plant. It is fairly shade-tolerant, stands some neglect, retains a tapering vertical shapeliness even when infrequently pruned, can be trained into a fine small tree or, with occasional shearing, into the handsomest of hedges, can be handled and restrained as a symmetrical specimen, holds foliage down to the ground and seems remarkably free of pests. If you admire the gloss of camellia, then you will appreciate the glamour of *cleyera*.

How hardy? That is still a question few could answer. Several specimens have withstood zero tem-

peratures at Atlanta, Ga., without damage. A Tallahassee grower tells me he has shipped *cleyeras* to central North Carolina and reports indicate they stand the gaff there.

*Cleyeras* grow fairly fast and open, but timely selective pruning can hold them low, tight and glossy. Even more than *Pittosporum tobira*, which they outrival for splendor, *cleyeras* are the perfect "natural" for artistic pruning and shaping. Propagation by cuttings is difficult; it is much easier from seeds.

*Cleyera japonica* is an attractive plant in its several aspects, but what impresses me most now is its scarcity in landscape plantings throughout the south. Three fine specimens are in the downtown park at Tallahassee, Fla. Last summer I came upon three *cleyera* plants at Laurel, Miss. Since *cleyera* is not unduly expensive, it



Use

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University Station  
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JUNIOUS PEAT CO.  
481 S. Main St. Geneva, N. Y.

Baled Straw and Marsh Hay  
Wire-tied.

Truckloads or carloads.  
**\$10.00** per ton.

**KOPFF & WECKWORTH**  
Beaver Dam, Wis.

would be a good shrub for wider landscape use.

Winton H. Reinsmith.

### MISSISSIPPI CONVENTION.

[Continued from page 19.]

opportunities for more sales of ornamental plants in the south. The necessity of more knowledge about the nursery industry in the south by means of records and surveys, in addition to improved production methods and education of the public as to what is quality, were enumerated by Professor DeWerth as other opportunities for the increase of production of ornamentals in the south.

Production may also be increased by the use of irrigation in outdoor crops, the use of new varieties and new planting sites annually, stated

### SUDBURY Soil Test Kit



### Get Bigger, Better Crops

Test your own soil expertly—quickly learn how much nitrogen, phosphorus and potash it needs for every crop—whether soil is acid or alkaline (pH). No waiting for reports—no knowledge of chemistry needed—no exacting measurements.

A Sudbury Soil Test Kit is more important than all your sprayers, tractors and tools. Assures bigger crops from every bench and plot, more fancies, higher market prices. It saves money often wasted on wrong analysis fertilizer... which may even injure valuable crops.

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**SUDBURY LABORATORY**  
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**NEW!** If you want your Sudbury Soil Test Kit in new streamline welded steel chest with luggage type handle, instead of wood case, send \$27.50 instead of \$22.50 (see above).

### CUSTOM PRINTING

No stock forms. Letterheads, Envelopes, Cards, Circulars, Labels, Catalogs, Office Forms.

**WADDELL PRINTING CO.**  
212 S. Detroit St. La Grange, Indiana



Midwest Metal Specialties, 543 S. LaSalle St., Aurora, Ill.

Professor DeWerth. Quality must be stressed; local southern markets should be supplied before northern markets, and a dependability of supply to the market is essential.

Duke Patterson, Rosemont Gardens, Montgomery, Ala., opened the growers' clinic with a talk on his experience in growing outdoor ornamentals in the south. His remarks were directed mainly to growers of cut flower crops.

#### Home Landscape Design.

Prof. F. S. Batson, Mississippi State College, spoke on "The Complete Home Landscape Design," in the second growers' session on Tuesday morning. He stressed that, as in the florists' industry, merchandise, growing and design should be kept separate in the nursery business. He stated that there was a definite need for more specialization in nursery work and urged that all nurserymen develop more attractive display grounds. Nurserymen should try to persuade customers to use a landscape plan when planting nursery stock in their home design. He produced a chart which showed plans for a model house and explained to nurserymen the correct procedure in landscaping the grounds adjoining the house. Some general rules in landscaping home grounds suggested by Professor Batson were as follows:

Never put plants which will grow more than two-fifths of the height of the house at the house corners. Develop plantings along imaginary lines of sight, or axis lines, which lead from the windows of the house. In drawing up landscape plans, tie in all plantings around the yard, thereby making the area look larger.

Use accent plants or ornaments at the ends of the axis lines of sight.

Large trees that are planted in front of the house must frame it and not cut it off from view.

#### Customer Relationships.

R. O. Monosmith, extension specialist, Mississippi State College, spoke on "Customer-Nurseryman Relationships." He stated that if plants are sold through a landscape plan, the customer, in most cases, will buy more plants from the nurseryman. The best advertising for any nurseryman is the production of good quality stock which will stand up under extreme climatic conditions in the area. Mr. Monosmith stated that follow-up advice on culture of plants is always advisable in dealing with customers. He warned nurserymen of the dangers of overplanting and urged that they do not overuse arborvitae in Mississippi, which

and thanks,  
fellows, it has been a real  
pleasure to do business with you."

Sincerely,

Rapidgro Corp.

*Tom Reilly*  
Pres.

**F**OR the past seven years, we have sold more than a million packages of RA-PID-GRO to more than 300 nurseries—many of them being the largest in their field. They, in turn, have sent these packages along with the orders of nursery stock to their customers.

If these nurseries have ever received a complaint against RA-PID-GRO, they have never told us. This surely must mean something to you, those of you who are now hesitating as to the value of RA-PID-GRO.

RA-PID-GRO is an honest product which does exactly as we say. You will never know the pleasure of happy and well pleased customers until you furnish them with RA-PID-GRO. Ask the nurseries who do.

And, to All of Our Nurserymen and their outlets—

WE WANT TO SAY

THANK YOU

FOR THE FINE COOPERATION THAT YOU HAVE GIVEN US.



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## NEW WAY to Rout Plant Pests—KILL NURSERY WEEDS



**SAVE TIME—SAVE WORK with this  
NEW Automatic CO<sub>2</sub> Gas  
Operated SPRAYER**



Special 31% discount to  
Nurserymen  
Regular Price,  
\$19.95  
Order NOW  
at only  
**\$13.75**

Now be free of bothersome, tiring hand pumping. CO<sub>2</sub> gas in detachable cylinder provides **All** the pressure. Gives generous, billowy spray and holds it **Steady**, heretofore impossible with similar sprayers. Simple "off and on" valve releases **Constant 30 lb.** pressure on spraying mixture in tank. Assures even dispersion... uniform results. And for the first time, full 3 gal. tank capacity may be used. Guaranteed safe. Anyone can operate it. Made by sprayer manufacturer in business since 1887. Cylinder contains enough gas for spraying up to 15 gal. When gas exhausted, cylinder may be easily refilled at your dealers—or returned to us, only \$.50.

**R. E. CHAPIN MFG. WORKS, Inc.**  
Batavia, N. Y.

Please send postpaid (U.S.A. only).

CO<sub>2</sub> Sprayers, @ special price **\$13.75**

☐ Check ☐ Money Order enclosed

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Wettable Powder**

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**\$1.75** per lb.

in 4-lb. cans, F.O.B.

**EDCO CORPORATION**  
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## ● TREE FEEDING CHART ●

Blue print, professional size, 18x24 ins. Shows how, amount and analysis of tree food to use per tree. Complete instructions on feeding trees.

Only **\$2.00** postpaid.

**JOHN J. CONERY**  
2217 Douglas St. Rockford, Ill.

over a long period has proven unsatisfactory. Price definitely is not an essential factor in selling of nursery stock to customers. The speaker produced slides which showed good and bad examples of landscape design in the state of Mississippi.

At the conclusion of the growers' school, a movie on the handling of plants at the Cloverset Flower Farm, Kansas City, Mo., was shown.

Invitations for the site of next year's convention were extended from Meridian, Jackson and Biloxi. Facilities at the afore-mentioned towns will be investigated by the executive committee.

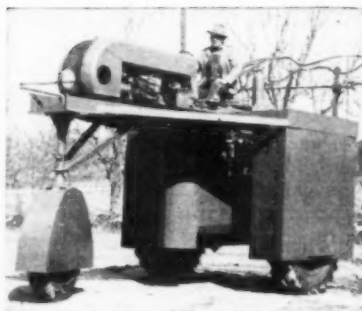
In addition to the delicious sea food buffet supper, at which all guests were given souvenir aprons by the hotel, the association held its annual banquet in the Rose room of the hotel, on Monday evening. To the strains of the Notre Dame victory march, fifteen waiters marched in bearing huge platters of steaks for the assembled guests. A pleasing feature of the banquet was the insistence of President Cabaniss that no speeches of any type be given, and the formal part of the banquet merely consisted of introductions of prominent guests. They were: Joseph Peters, president of the Louisiana State Horticultural Association, and Mrs. Peters; Hardy Demeranville, Mobile, president of the Alabama Nurserymen's and Florists' Association, and Phil Harrison, president of the Southeastern Florists' Association.

## STUDY ROOTING OF EVERGREEN CUTTINGS.

During the past several years experiments have been conducted at Ohio State University by the department of horticulture to determine the effects of different rooting media and watering methods on the rooting of softwood and hardwood cuttings of various narrow-leaved and broad-leaved evergreens. Also noted were the kind of cutting taken and the time of taking it. The results of some of these experiments have been reported in the bulletin, "Nursery Notes," by Dr. L. C. Chadwick, of the department of horticulture, Ohio State University.

The cuttings were handled in a south lean-to type propagating house equipped with a Binks humidification system. The rooting media used were No. 1 vermiculite, No. 7 silica sand and sphagnum peat, either alone or in varying combinations. The watering systems of manual subirrigation, constant level subirrigation and overhead watering were used. Treatments of Hormodin No. 2 were

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Clearances up to 78 inches.  
**Sprays Four Rows at One Time.**

Cultivator can be attached.

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MIN. SIZE 2 1/2" FANCY  
MASS. Approved Crato  
GREENINGS  
PACKED BY  
R. D. MARCH  
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**RIVET-O MFG. CO.**  
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given the cuttings of *Euonymus fortunei* and *E. f. carrierei* and *E. f. vegetus*, *E. kiautschovicus*, *Pyracantha coccinea pauciflora*, *Pieris japonica* and *Viburnum rhytidophyllum*. Hormodin No. 3 was given to the cuttings of *Cotoneaster dammeri*, *Pachistima canbyi*, *Rhododendron catawbiense*, *R. Charles Bagley* and *R. Roseum Elegans*. The cuttings of *Ilex opaca* were treated with Rootone.

The results of the experiments with the varieties of *euonymus* and *pyracantha* showed that softwood cuttings of these broad-leaved evergreens rooted readily in all the media and with all of the watering methods used. All were easily rooted. No one medium nor watering method proved the best for all the types of hardwood cuttings used.

Cuttings of *Cotoneaster dammeri* were found to root readily when taken in October. Satisfactory media were No. 1 vermiculite or equal parts of No. 1 vermiculite and No. 7 silica sand. If the moisture content was kept carefully adjusted, constant level and manual subirrigation were satisfactory watering methods.

*Pachistima canbyi* rooted easily in ten to twelve weeks when cuttings were taken in October. Overhead watering gave the best results on this plant, and three rooting media

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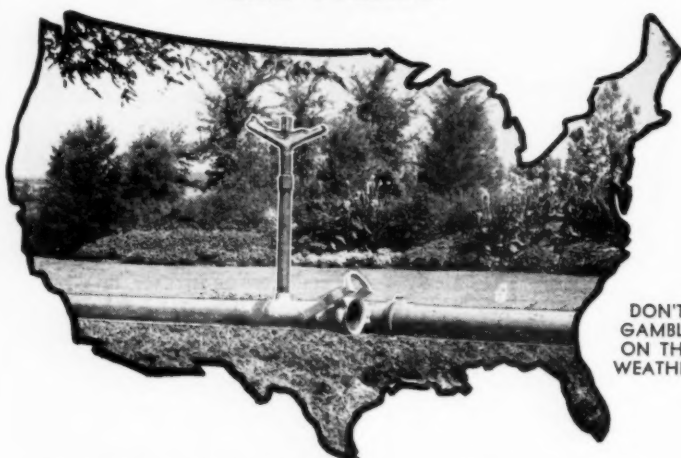
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were found to be successful, No. 7 silica sand and No. 1 vermiculite, No. 7 silica sand and sphagnum peat, or a mixture of all three—sand, vermiculite and sphagnum peat.

Cuttings of *Pieris japonica* were found to root better if they were taken in January rather than in November or December. Overhead watering or manual subirrigation was satisfactory when No. 7 silica sand or a mixture of equal parts of No. 7 silica sand and No. 1 vermiculite was used as a rooting medium.

Leaf bud cuttings were found to be superior to stem cuttings for rooting *Rhododendron Roseum Elegans*. Cuttings taken in December rooted as readily as those taken in October, but better quality roots were produced on the December cuttings. The best rooting occurred in a medium composed of equal parts of No. 7 silica sand and sphagnum peat when the watering system was overhead. *Rhododendron Charles Bagley* did not give satisfactory rooting from stem cuttings taken in early October. However, overhead watering and a No. 1 vermiculite rooting medium were found to be superior to other methods and media tried.

*Viburnum rhytidophyllum* stem cuttings were found to be superior to leaf bud cuttings for rooting. October cuttings were particularly successful when rooted in a medium of equal parts of No. 7 silica sand and sphagnum peat or No. 7 silica sand and No. 1 vermiculite. Both manual subirrigation and overhead watering were found to be satisfactory.

Cuttings of *Ilex opaca* taken in August and September rooted well. The best rooting results were obtained in a medium of equal parts of No. 7 silica sand and No. 1 vermiculite with the manual subirrigation method of watering.

ROBERT F. HUTT, 2568 Main street, Glastonbury, Conn., has discontinued his nursery and landscape business.

A SON born May 18 to Mr. and Mrs. Peter Cassinelli II has been named Peter III after his father and grandfather, both of whom are associated with Glendale Nurseries, Glendale, O.

ARNOLD RADDER, who formerly managed a large landscape nursery at West Hartford, Conn., has opened a landscape nursery at Stillwell's Corner, Freehold, N. J. Born at Boskop, Holland, Mr. Radder has been engaged in the nursery business in Belgium, France, Germany, Holland and England, as well as in the United States.

## NOTES FROM A NURSERYMAN'S WIFE

Kansans have honored the memory of Sen. John J. Ingalls by placing a bust of him in the rotunda of the Capitol building at Washington, D. C. What he did politically has been largely forgotten, even in his native state, but his "Ode to Grass" is still quoted in part and in full. Perhaps you remember: "Grass is the forgiveness of nature—her constant benediction. Fields trampled with battle, saturated with blood, torn with the ruts of cannon, grow green again with grass, and carnage is forgotten. Streets abandoned by traffic become grass-grown, like rural lanes, and are obliterated. Forests decay, harvests perish, flowers vanish, but grass is immortal . . . It yields no fruit in earth or air, yet, should its harvest fail for a single year, famine would depopulate the world."

I believe it was Senator Ingalls, too, who thought of the perfect 2-word description of Kansas, calling it "a grassy rectangle."

\*\*\*\*\*

Rutherford Platt, in a book called "This Green World," speaks of growing plants as green fountains. Sap which rises from the roots is sprayed through the leaves as water into the air. A single cornstalk, he tells us, will spray 440 pounds of water into the air during its brief growing season.

Among the smallest of these fountains are the grass blades. At the height of their power late in June an acre of meadow grass will lift and pass on into the atmosphere six and one-half tons of water in just one day. Desert plants, such as cactus, have a nonporous membrane which prevents evaporation in order that they may survive on their meager supply of water.

\*\*\*\*\*

From somewhere I clipped an illustrated article concerning the unusual hobby of Glen P. Burns, who collects pictures of strange trees. One picture is of a limber pine on Mount Evans, in Colorado, which has a growth on its windward side that looks for all the world like a gigantic praying mantis. The "winding cobra" tree is a yellow pine with a winding stem found near the Clover valley in the Plumas national forest of California.

When the Chehalis Indians made peace with the white men in 1860 in the state of Washington, a flintlock

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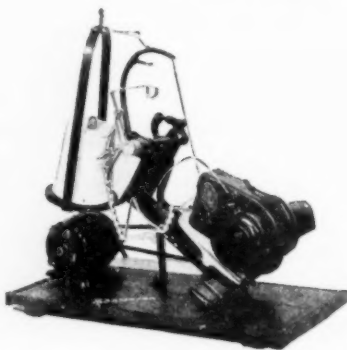
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WINDSOR, ONTARIO, CANADA

rifle was placed in a bur oak crotch. After eighty-nine years the rifle seems to have been thrust through the trunk by some giant hand, fully a foot below the crotch. Another picture is of rails from an old fence which were fused and overgrown by the trunk of a large white oak. The cross section of a silver maple shows a clear picture of a mountain goat; a pair of cypress trees have joined tops to assume the shape of an ostrich; an American elm at Bridge-water, Mass., is either one elm dividing into four trunks, or four trunks forming a single tree, and in Balch park, in California, a sequoia which was sawed completely through did not fall, but instead grew together and lived, slightly off-center. Another freak is a "tower tree" at Greensburg, Ind., an aspen which is growing from the tower on the roof of the county courthouse.

\*\*\*\*\*

From the Ladies' Home Journal comes the information that Antoine, the famous hairdresser, chooses flowers to match the personalities of his friends. Mary Pickford receives roses, Joan Crawford orchids, Gene Tierney carnations, Marlene Dietrich peonies and so on. Orchids are said to be the favorite flowers of Ann Sheridan, Greer Garson and Mme. Chiang Kai-Shek; camellias of Eva Le Gallienne; cabbage roses of Mary Margaret McBride and the Duchess of Windsor and a black and white African flower called chinchinchee, the favorite of Patricia Collinge. That I should like to see. I have heard of a book called "The Black Tulip" and a Black Dahlia murder case, but a black and white flower from Africa called chinchinchee really sounds like something.

When any of John Robert Pow-ers' friends have a new daughter, the models' agent is said to send red roses with this card: "Here's to our future long-stemmed American beauty."

\*\*\*\*\*

It was surprising to learn that there is a park at New York city, in back of the public library, which is European in feeling, surrounded by a formal balustrade, shaded by plane trees and bedecked with regiments of bulbs. In spring it makes an immense reading room in which people speak quietly, if at all, unwilling to disturb the hush in which their neighbors pursue their reading or their romances. The name is Bryant park.

\*\*\*\*\*

The University of Maine's campus grass should be greener if poetical





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pleas on signs take effect. One reads:  
"There was a little plot of grass  
which died of suffocation.

Some coeds and some college Joes  
Walked here in meditation."

Another advises:

"The straight and narrow path is  
best,

Stick to it, kids,

The grass needs rest."

And this is a more prosaic helpful  
hint: "Avoid grass stains."

\*\*\*\*\*

Eleanor Roosevelt has written an interesting paragraph about Sihlwald forest at Zurich, Switzerland, which she visited. This is said to be the oldest commercially managed forest in the world. For 600 years this 2,000-acre forest has been a source of income.

It was originally designed to provide firewood for the people of Zurich and still fulfills that function, but it also provides wood for timber. Sihlwald forest is privately owned, but almost every city or canton in Switzerland owns forest land. For the past fifty years a law has been in force which sets aside certain areas for forests only.

Over this long period of time the Swiss have become well educated in forest preservation. Nowhere are

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50 to 95 lbs.	1.35	1.15	1.05
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495 lbs.	1.20	1.02	.94
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there signs such as we have—"Be careful of fire"—yet they rarely have a forest fire, though the forests are used as public recreation grounds. There are no fireplaces and tables, but people bring their lunches and baskets and sit under the beeches on a green carpet of little spearlike leaves which smell like chives. Not far from the entrance to Sihlwald forest is an attractive guesthouse with a scenic view. One can have tea either indoors or on a terrace outside.

\*\*\*\*\*

Atlanta, Ga., seems to have a fondness for the name "Peachtree." In addition to its most famous street of that name, there are no less than eighteen others listed in the city directory, including a road, circle, arcade, avenue, terrace, view and drive.

\*\*\*\*\*

Culled from here and there: A neighbor denies that he wrecked the Russian olive tree in his yard because he was mad at Joe Stalin. An ice storm did it, he insists.

A fellow we read about puts a soft sponge rubber mat under his apple tree to cushion the fruit as it falls. Next, of course, will be the Jonathan with a band-aid on its bruises.

\*\*\*\*\*

Modern science is doing its bit to preserve the historic Daniel Boone "Judgment Tree" at Boone Lick trail near his last home, about fifty miles from St. Louis, Mo. The Davey Tree Expert Co. has been caring for the tree, under which the famous pioneer passed sentence on lawbreakers for more than twenty years.

\*\*\*\*\*

How many leaves on a tree? As many as 100,000 on an apple tree, men of science tell us, but more than fifty times that many on an American elm.

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## NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 833. Pecan tree. Robert A. Harris, Arlington, Calif., assignor to Lawrence Sherwood, Fullerton, Calif. A new and distinct variety of pecan tree, characterized particularly by the rapidity with which it comes into production; its consistently heavy crops; its early maturing season; its symmetrical form; its lack of breakage and splitting; its wide climatic and soil range, and its medium-size nuts having smooth outline.

No. 834. Rose plant. Frederick H. Howard, Montebello, Calif., assignor to Howard & Smith, Montebello. A new and distinct variety of hybrid tea rose plant, similar to its parent described in plant patent No. 639, except that it is characterized particularly by its large vigorous canes; its climbing ability; its larger, heavier and stronger foliage, and its larger-size buds and blooms.

No. 835. Hybrid mallow plant. Ernest Hemming, Easton, Md., assignor to Eastern Shore Nurseries, Inc., Easton, Md. A new and distinct variety of mallow plant, characterized as to novelty by its rich red color of flowers, of medium size opening flat with overlapping petals; its deeply cut, dark green and shiny foliage, lacking the usual coarseness and hairiness of other varieties; the hardness of the plant, its medium-size habit of growth and reddish color of stem.

No. 836. Honey locust tree. John D. Siebenthaler, Dayton, O., assignor to the Siebenthaler Co., Dayton, O. A new and distinct variety of honey locust tree, characterized as to novelty by its habit of quick growth, its size and shape, its dense foliage suitable for shade purposes, its fruitlessness and consequent lack of production of seed pods and the absence of thorns.

No. 837. Lilac plant. Walter Bosworth Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., San Jose, Calif. A new and distinct variety of Syringa vulgaris plant, characterized as to novelty by its habit of prolific flowering; by the bluish-purple color of its flowers, the variation of color definite stages of development from bud to mature bloom; by the spacing of the double flowers in the uncrowded but intermingled compound thyrses; the dark color of the new growth of bark, and its free blooming on young plants.

No. 838. Rose plant. Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Co., Richmond, Ind. A new and distinct variety of rose plant of the polyantha class, characterized as to novelty by its heavy canes, the form and color of its thorns and by the size and color of its blooms.

No. 839. Rose plant. Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Co., Richmond, Ind. A new and distinct variety of rose plant, characterized as to novelty by its free growth and good production of flowers of distinct coloring.

No. 840. Rose plant. Vincenzo Sodano, known as Jimmy Sodano, Madison, N. J. A new and distinct variety of hybrid tea rose plant, characterized particularly by the large size of its dark green foliage devoid of thorns, its free and vigorous growth, the large size of its flowers and petals, its lasting fragrance, the retained high-centered form of the flowers, as well as the unruffled and only slightly reflexed edge of the petals, and the velvety brilliance of its newly opened flowers of dark Tyrian-rose, which deepens as the flower ages.

No. 841. Rose plant. Josephine D. Brownell, Little Compton, R. I. A rose plant variety characterized by its resistance to winter injury, its intensity and continuity of winter resistance, its long keeping character of the color of its petals and the form of its petals and flower, variable within certain definite limits; its color as described, all in association with its habit of branching from bloom stems and from the base and blooming in hybrid tea manner, and its degree of freedom from premature defoliation by black spot during the growing season.

No. 842. Rose plant. Josephine D. Brownell, Little Compton, R. I. A hardy hybrid rose wichuralana hybrid tea rose plant variety, characterized by its resistance to winter injury, its mild pleasing fragrance, leaflets of a brilliant green, with form and color of bloom and plant; petals that recur outward in a unique degree of tightness and form; unique form of growth and great degree of inflorescence and continuity thereof.

No. 843. Rose plant. Josephine D. Brownell, Little Compton, R. I. A variety of rose plant characterized by its resistance to winter injury, its intensity and continuity of inflorescence, its pleasing fragrance, the color of its flowers, the long keeping character of the color of its petals, the notably velvety luster and form of its petals and the form of the flower, variable within certain definite limits; its character of long holding that form, all in association with its habit of branching from bloom stems and from the base and blooming in the hybrid tea manner,



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HYPER-HUMUS promotes finer root growth, stronger stems, more abundant foliage and blossoms. Also it reduces damping-off because moisture is released only as needed for plant growth.

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1. Use HYPER-HUMUS
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Your customers, too, want this rich, vital soil organic. They like the healthy growth and greater production that it assures. And you will increase your profit with many repeat sales.

#### Genuine HYPER-HUMUS is

1. A reservoir of moisture
2. A regulator of temperature and air
3. Free from weed seeds, insect larvae
4. Teeming with essential soil bacteria
5. Always uniform in quality
6. Long lasting



and IT'S PROCESSED



The CULTIVATED Soil Organic

[Write or phone about deliveries.]

**HYPER-HUMUS CO., Box 31, Newton, N. J.**

### PLANTthion! PARATHION!

15% WETTABLE PLANTthion (For Outdoor Use Only). For use as a spray by outdoor growers. Good control of cyclamen mite on delphiniums, red spider on evergreens, azaleas and hydrangeas, etc. Use from ½ pound to 2 pounds per 100 gallons.

4-lb. bag.....\$7.00

2% PLANTthion DUST (For Outdoor Use Only). For ornamental crops for those who prefer to dust. 20 to 35 pounds are used to the acre.  
25 lbs.....\$10.00 50 lbs.....\$18.00



**PLANT PRODUCTS CORPORATION**

BLUE POINT, L. I., NEW YORK

DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

\$1.00 per copy.

AMERICAN NURSERYMAN,

343 So. Dearborn St.,

Chicago 4, Ill.

## Rx For the Nurseryman's Greatest Headache—Replacements



Feeds and waters right to the roots.

**SELL THE ROSS ROOT FEEDER** with every sale of nursery stock, for after-planting care. Save on replacements—and make 40 per cent profit.

Now sells for **\$3.50** complete with 12 plant food cartridges.

Mailing stuffer and catalog electros **FREE**.

**ROSS DANIELS, Inc.**

1217 High St.

Des Moines, Iowa

and its freedom from defoliation by black spot during the growing season.

No. 844. Rose plant. Roy L. Byrum. Richmond, Ind., assignor to Joseph H. Hill Co., Richmond, Ind. A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its habit of growth, its extra large size flowers of deep brilliant red and qualities especially suitable for greenhouse purposes.

No. 845. Rose plant. Josephine D. Brownell. Little Compton, R. I. The variety of rose plant substantially as shown and described, characterized by its resistance to winter injury, its continuity and intensity of florescence, its pleasing fragrance, its long keeping character, the form of its petals, its character of long holding its flower form, the unique color combinations of red and its large number of petals, all in association with its habit of branching and cumulative growth, from the base by stems or canes.

### LANDSCAPE REPORTS.

[Continued from page 20.]

should average out to a satisfactory spring season. Our cash-and-carry business was off a little this year compared to other seasons. I feel that our wholesale business was up considerably by similar comparison and that our accounts receivable are the heaviest they have ever been. Along this line I might add that the collections seem to be very satisfactory.

"Colorado, as well as all the Plains area, experienced a rugged and extremely cold winter, as was evidenced by the 'hay lifts' by various agencies, to supply food to snowbound cattle in February. The extreme cold that this entire area experienced at that time did considerable injury to shade trees, apparently more than it affected evergreens, although the latter in certain items were injured somewhat from the extreme dry cold during that period. For this reason, many shade trees of spring, 1948, planting were not usable this spring.

"Demand was heavy on good merchandise all spring, and our experience was that the better items moved more easily than the cheaper or more common material. We normally have only two or three large landscape jobs per spring season, but this year, for some reason, we had a dozen or

### WEATHERPROOF ALUMINUM TAG



Actual snapshot of tag embossed with an ordinary pencil.

#### NEWEST, BEST, LOWEST PRICED TAG

Ever Offered the Nursery Trade

**CONVENIENT**—Emboss with any sharp point, e.g., pencil, nail, stylus.

**DURABLE**—Long-lasting Aluminum, copper wired.

**ATTRACTIVE**—Silver Aluminum, backed with yellow cardboard.

**INEXPENSIVELY PRICED:**

With eyelet:  
1000 for **\$11.50**  
500 for **7.00**  
250 for **4.00**

Without eyelet:  
1000 for **\$10.00**  
500 for **6.50**  
250 for **3.50**

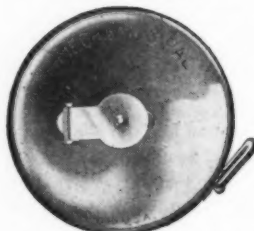
**The Berryhill Nursery Co.**



**EVERGREENS ORNAMENTALS**

FOUR MILES NORTHEAST OF SPRINGFIELD, OHIO  
STATE ROUTE FOUR  
P. O. BOX 696

### TAPE RULES



Cloth Tape for use where Steel Tape accuracy is not required.

50 ft. .... ea., 75c; doz., **\$8.00**  
25 ft. .... ea., 60c; doz., **6.00**

**ARBORIST SUPPLY COMPANY**

Incorporated  
RYE, NEW YORK



### Build Your Own Irrigation System

Using the nozzle that gives adequate irrigation on low operating cost. Covers 40-foot circle on 15 lbs. pressure. Complete even coverage improves yields and quality of crops.

Plan and instructions sent upon request.

**ITTNER BROS.**

Box 80

ANOKA, MINN.

# SPRAY-LIFE

Contains BL-600, a product of the B. F. Goodrich Co.

Specially compounded by American Anode, Inc., Akron, Ohio.

- A Protective Coating for Evergreens, Shrubs, Roses, Perennials and Vegetable Plants.
- Prevents Excessive Dehydration during Transplanting—Shipping—Display.
- A Preservative Coating for Christmas Trees—Wreaths—Holly.

COMES IN CONCENTRATED LIQUID FORM—  
JUST ADD WATER—MIXES IMMEDIATELY.

Apply with brush, spray or dip.

1-gal. trial sample, \$6.50 F.O.B., Chicago.

Available in 5-gal. and 50-gal. containers at lower prices.

Exclusive representative to the trade.

## AMERICAN FLORIST SUPPLY CO.

1335 W. RANDOLPH ST.  
CHICAGO 7, ILL.

31 W. 27th ST.  
NEW YORK 1, N. Y.

more of these jobs. This perhaps explains why our volume was considerably up this year over what it had been in the past. All told, we are very much satisfied with the 1949 spring sales season, even though we had to work day and night to keep up on it. And the fact that the season was perhaps two to three weeks longer than usual, due to the good weather experienced and the cool spring, will also explain why we feel we have had a profitable season, as logically, the longer your sales season, the more sales you should make. We made a nice cleanup of practically everything we stocked."

### Mild Winter in Kentucky.

A mild winter and widely scattered rains permitted Carl Ray Co., St. Matthews, Ky., to complete much landscape work earlier than usual, according to Carl Ray, who states:

"In my twenty years of business experience, this past winter and spring have been the finest we have ever had for landscape work. The winter was mild, and rains were well scattered, providing good working conditions. We did a great part of our landscape work much earlier than usual and were in a position to give better service during the rush period."

"Our volume of business is greater

## MAKE EXTRA PROFITS 2 WAYS WITH "NA-CHURS" LIQUID FERTILIZER

Here's a product that will make you money two ways. By using it on your plants you can control growing and market at highest prices—by selling it to garden enthusiasts you pocket liberal discount off retail price and build steady, repeat business.

### FOR YOUR USE

"Na-Churs" is a tried and tested liquid fertilizer containing growth-building elements that quickly nourish plant life. No extra equipment needed to apply "Na-Churs"—you water and fertilize in one easy operation. Since "Na-Churs" acts so fast, you cut growing time and take advantage of highest market prices. "Na-Churs" is inexpensive to use—one gallon of liquid concentrate makes 256 gallons of liquid fertilizer.

### FOR YOUR CUSTOMERS

Sell "Na-Churs" to your customers—it's ideal for lawns, flowers, shrubs, trees and potted plants. "Na-Churs" is Nationally Advertised—carries local cooperative advertising—has free point-of-sale merchandising aids, and gives you liberal profit. Make money two ways with "Na-Churs"—use it yourself and sell it to your customers. Full and complete information on "Na-Churs" is yours for the asking—send for it TODAY with no obligation on your part.

WRITE DEPT. A TODAY FOR COMPLETE INFORMATION

"NA-CHURS" PLANT FOOD COMPANY  
MARION, OHIO LONDON, CANADA



## The Most Widely Recommended Self-Help Work of its Kind!

### "HOW TO MAKE YOUR OWN NURSERY ADS THAT SELL"

By J. H. Slingerland

Never before a "self-help" instructive work like this! Seldom advertised—one Nurseryman tells another, keeps it selling all year around! Proof? Sales "peak" in each state as conventions are held! Now, ask your friends at the A. A. N. Convention. Then buy this "know-how" to cash in on what you learn there!

#### NOT A TEXTBOOK— AMAZINGLY BRIEF!

A Businessman's Brochure—Instant Reference make-up—Telegraphically Simple—this 4-step Fundamentals of Nursery Stock Advertising TEACHES YOU how to MAKE ADS THAT SELL.

#### BUILT A MILLION-DOLLAR BUSINESS

Written by an Advertising Man turned Nurseryman—this identical 4-step Method built a Million-dollar Nursery business in 3 years before the war! "Worth \$100"—"One hour with this and I can do it"—"Waiting years for this"—"Most understandable thing I've ever seen"—write nursery owners. "Marvelous teaching technique" says university professor; another bought for use in his classroom!

#### GIVES FACTS—NOT GENERALITIES

Here's what this brass-tack, pin-point Brochure tells you, teaches you, does for you . . .

- Gives you complete understanding of the 2 principles that Make Ads Sell and tells YOU how to apply them yourself.
- Identifies the TWO Fundamentals of Advertising so you can use ads successfully.
- Gives you the 3 STEPS in Planning an Advertising Program that SELLS—and shows you how to work them out automatically.
- Gives you the KEY to writing Headlines That Sell, so YOU can write them.
- Tells the SOURCE of Selling Copy and how YOU let it write itself.

#### TEACHES WITH CONVICTION, PROOF

Dramatic, pointed humor "sugar coats" the direct, logical telegram-brief teaching technique, makes the lessons "sink in." No ifs, ands, buts or qualifications—no extra words. It's all facts—proved with examples! One hour with "How to Make Your Own Nursery Ads That Sell" and YOU CAN START building ads!

Includes complete artist's drawing of fully executed ad, embodying ALL FOUR STEPS taught you in the Brochure—proving you can do it, because you'll recognize that headlines and copy fit the "lessons" perfectly.

#### FILLED WITH "PROFIT PLUS" IDEAS

In addition, this Brochure gives you "no" cost sales-getting ideas, tells you how to:

- Multiply Customer Flow into Your Nursery.
- Get repeated free publicity news items, photos of your nursery in local newspapers.
- Get the whole town talking about your nursery, recommending you.
- Advertise any item in your nursery so customer can't buy it anywhere else.
- Get higher prices for advertised items.
- Beat the chains without cutting prices.
- Recognize 12 specific, huge sales opportunities this year—when people in your town must spend money—and tells you how to get it spent for YOUR Nursery Stock.

#### COMPLETE YEAR-ROUND AD PROGRAM

Covers every month in the year. Fits YOUR Nursery—YOUR Own Town—YOUR local Newspaper, Circulars, Mailings. Sells your present plant material—nothing new to buy. 20 years Chain Store, Adv. Agency experience backs up every recommendation. You'll agree with everyone—NOW KNOW how to do them yourself—quickly, confidently, successfully.

#### PRICE ONLY \$5.00 COMPLETE

Hundreds already sold. Available direct from Author only. He was Advertising Manager, Montgomery Ward's Nursery Stock Dept., Director of Dale Carnegie Institute, Chicago; Guest Lecturer, Northwestern University.

Order today—send check or money order.

**J. H. SLINGERLAND**

Box 5282 Wheaton, Ill.

than in previous years. However, customers certainly are buying more carefully, and we have to sell our work now, while in the war years it was mostly a matter of order taking. We have done extensive landscape work all winter and spring under most favorable working conditions. The supply of labor is somewhat greater than it was last year."

#### Demand Exceeds Supply.

C. B. Howell, general manager of Howell Nurseries, Knoxville, Tenn., comments on the strong demand for nursery stock as follows:

"The demand for nursery stock exceeds the supply at the present time, and I hope that the same condition will continue.

"We specialize in azaleas and now have more than a million of them in various sizes. We do a limited cash-and-carry business in addition to our landscape planting. Because of the warm, wet winter, our sales were not up to par, but landscape business was good. Warm spells and sudden cold weather injured many of our evergreens and other plants."

#### Heavy Demand in Iowa.

J. C. Baumhoefener reports on the late season and heavy demand at Baumhoefener Nursery, Cedar Rapids, Ia., as follows:

"We had little winter damage this past season, and plants of all kinds were in good condition.

"Our season opened late, with heavy demand, and continued unbroken, with almost no rain until the middle of May. Planting orders were unusually heavy, and customers were willing to pay the extra cost of planting but were, on the other hand, extremely particular.

"We found little price resistance, but customers insisted on top-quality stock and immediate service. Cash-and-carry sales from rural areas were lower than last year, but the city trade was up. Our total volume at the close of the season surprised us by being higher than it was last year. Common labor was plentiful, but experienced nursery help is still scarce.

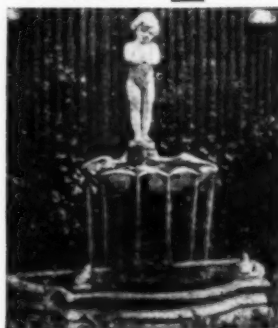
"In checking our books, we noted that our customers charged more stock this year and that payments of accounts are not so prompt as in past years. We anticipate a good fall season because inquiries are still coming in."

#### Public Is Price Conscious.

Because customers are more conscious of prices this year than they have been in the past few years, some sales resistance has been encountered

## GARDEN ORNAMENTS

The right piece for your setting



Girl with Grapes Fountain—54" high

#### SCULPTURES—FOUNTAINS

Birdbaths Benches Wellheads

and

#### Wrought Iron Furniture

Complete Illustrated Catalogues 50c

## POMPEIAN

169 LEXINGTON AVENUE, NEW YORK

## WOOD LABELS

For Nurserymen

**DAYTON  
FRUIT TREE LABEL  
CO.**

Ray and Kiser Sts. DAYTON, O.

Mention The American Nurseryman when you write.

## IT COSTS NO MORE

(and in most instances less)

#### FOR OUR PACKING OF

## Nursery Burlap Squares and Rolls

Write for prices and samples.

**L. ATKIN'S SONS**

P. O. Box 167 Rochester, N. Y.

## New Sensational : 'Magic' Profit Seller



An amazing chemical compound—put up in handy cans—readily inserted in hole drilled in the center, decomposes fibers down to root tips for easy, final removal of old or new tree stumps. Saves money, time, labor.

No Digging!  
No Chopping!  
No Blasting!

LIST IN YOUR CATALOG! COUNTER DISPLAY CARDS FURNISHED! Priced Right. Write today for quantity prices.

SAMPLE ORDER  
Prepaid  
12—16 oz., \$16.20  
\$1.35 Ea.—Retail  
\$2.75 Ea.—  
Profit \$1.40 Ea.

H. D. CAMPBELL CO.,

Rochelle 121, Ill.

by Westover Nursery Co., University City, Mo., reports J. W. Myers. He writes:

"The demand for nursery stock this past season at our nursery was equal to that of a year ago. Sales are a little harder to make, however, because the public is more price conscious and is shopping around much more, looking for good values.

"Help is plentiful, and employees work harder for the same wages because they are more interested in keeping their jobs than they have been during the past few years.

"The spring season was cut short by the weather, but our volume of sales remained steady. Landscape plantings increased a little.

"We experienced some loss in liners planted in the fall, as a result of ice heaving in winter. Other than this, we had no loss from ice or snow. Our spring plantings of liners were completed on schedule."

#### Season Begins Late.

The season began late this year at the Park Nurseries, St. Paul, Minn., comments H. S. Reid, landscape architect, who reports on business as follows:

"Our volume of business this past spring was the same as it was a year ago. The demand for materials in gardening work was satisfactory. Although our season started late, on April 6, we have now completed planting and gardening. The labor situation is much improved, and the men working on construction, tree trimming, gardening and sodding will continue throughout the summer if it does not become too dry.

"During the latter part of April, temperatures in the 90's forced growth and caused a short season on evergreens. Perennials, shrubs and trees came through the winter satisfactorily, and evergreens also survived well. However, transplanting has not been satisfactory, and this will cause a considerable loss.

"Cash-and-carry business increased approximately from ten to fifteen per cent this year. We will feel the effects of the curtailment in building construction this fall and next spring."

#### Volume of Sales Increases.

A fifty per cent increase in the volume of business at White Elm Nursery Co., Hartland, Wis., is reported by Laurence G. Holmes, president and general manager. He writes:

"This year our volume of business was fifty per cent greater than it was last year, making this one of the biggest years our nursery has



**GET RID OF THE  
DEADWOOD  
FAST and EASY**  
with  
**GENSCO**  
**BUSHMAN**  
**PRUNING SAWS**  
(Made in Sweden)



143B



141A

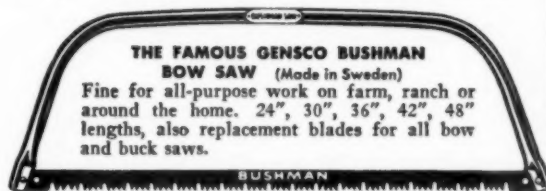
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Properly pruned trees, vines and shrubs grow better, bear heavier. To do an improved job of pruning, Gensco offers five groups of saws to fit every need.

Patented tooth arrangement cuts on *forward* and *back* strokes. Swedish steel blades have a razor sharp cutting edge (stay sharp longer) for the smooth cut necessary in good pruning.

Styles include long and short handles, tubular extensions, pistol grips and folding types. Handles are hard polished birch with clear weather proof finish.



**THE FAMOUS GENSCO BUSHMAN  
BOW SAW** (Made in Sweden)

Fine for all-purpose work on farm, ranch or around the home. 24", 30", 36", 42", 48" lengths, also replacement blades for all bow and buck saws.

Literature available.

Available from leading Hardware dealers or write direct to:

### GENSCO TOOL DIVISION

GENERAL STEEL WAREHOUSE CO., INC. • 1814 North Kostner Avenue • Chicago 39, Illinois

## SPECIAL PINNING NAILS

Nails built to special specification for pinning.

These are 7d, smooth, box-pin-pointed with a special, heavy, thick head. Men can pin day after day without sore hands. Something we have never been able to get before, and we had to purchase in carload.

Priced F.O.B., Fairview, Pa. Usual 5 per cent cash discount.

1 to 5 cwt.  
\$12.50 per cwt.

5 to 10 cwt.  
\$12.00 per cwt.

10 cwt. or more  
\$11.50 per cwt.

### FAIRVIEW EVERGREEN NURSERIES

FAIRVIEW, PA.

#### DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

\$1.00 per copy.

AMERICAN NURSERYMAN,

343 So. Dearborn St.,

Chicago 4, Ill.

revolutionizing insect control  
on nursery plants

**Thiophos**  
REG. U. S. PAT. OFF.  
**PARATHION**

developed by American Cyanamid Company

Protect your ornamentals and nursery stock with regular applications of Wettable Powders or Dilute Dusts containing THIOPHOS Parathion. It gives remarkable control of virtually every type of insect attacking nursery plants.

Be sure the insecticides you use are made from THIOPHOS Parathion.

**AMERICAN Cyanamid COMPANY**

AGRICULTURAL CHEMICALS DIVISION

30 ROCKEFELLER PLAZA — NEW YORK 20, N. Y.

Please Mention **AMERICAN NURSERYMAN** When Writing Advertisers.

**Twine**

AS COMPLETE A STOCK OF NURSERY TWINES

AS CAN BE FOUND ANYWHERE

**GEO. B. CARPENTER & CO.**

446 NO. WELLS STREET • CHICAGO 54

**Ideal Garden Gadgets...**  
**METAL LABEL MARKERS**  
Flag... Swing... Duplex  
SEND FOR DESCRIPTIVE FOLDERS TODAY  
**LANSING SPECIALTIES MFG. CO.**  
721 N. HAYFORD — LANSING 12, MICH.

**RUBBER Products**  
AMERICA'S FINEST  
KATFISH BRAND  
Rubber Bands  
Aprons  
Pudding Strips  
Clothing  
Spray Bulbs  
Kneeling Pads  
Footwear  
Gloves  
Sponge Rubber  
Belts  
More  
\* GET OUR CATALOG AND PRICE SHEET  
BROADWAY RUBBER MFG. CO., LOUISVILLE 2, KY.

ever had. Demand for our stock was steady, and because our prices were as high as they have ever been, we realized a good return.

"Help was available in any quantity we could use, and, as a result, we were able to get our work out on time and in enough volume to allow for the new business that always comes when the season actually opens. This factor had been a problem to us during the past few years.

"In mid-April some winter damage to certain of our evergreens suddenly showed up, but it was not as great as the amount that had occurred the preceding year. The damage was on some of the larger specimen pines and Siberian arborvitae. Other types of evergreens survived the winter in good condition.

"Our cash-and-carry business was much greater than in any year we have ever had. This probably was caused by the advertising that we carried in fifteen of the local newspapers during April and half of May.

"We attribute our increase in business to the effort that we have made to obtain orders. We have devoted much time to making as many contacts for our landscape business as was possible, and we increased our advertising volume both last fall and this spring. Although other businesses in this area have slowed down considerably, no slump has occurred in our type of work. Few of our clients have complained of prices or of a lack of funds. We already have a good start on business for fall and next spring."

#### Business Good in Wisconsin.

The nursery business has been good during the past year, and McKay Nursery Co., Madison, Wis., satisfactorily cleaned up all surplus stock, except some varieties of fruit trees, according to W. G. McKay, president, who reports:

"The nursery business has been excellent during the past year. We had a good late spring business and cleaned up our surplus stock satisfactorily, except for some varieties of fruit trees which moved slowly. The demand for fruit trees has been slow for the past two years. Farmers are short of help and, consequently, do not feel that they can supply sufficient labor for the planting of new orchards.

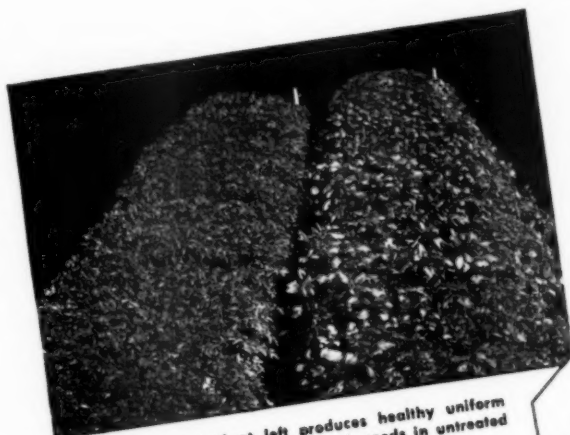
"We planted our usual quantity of stock in the nursery, and the stand is excellent on all the stock that we lined out. All stock came through the winter in a satisfactory condition, and I do not believe that there was much winter injury anywhere in the northwest. Nurserymen in Wisconsin



# Kill Weed Seeds and Soil Insects . . . Use

## ► DOWFUME MC-2

### For Fumigation of Seed Beds



Treated seed bed at left produces healthy uniform growth of asters. Note grass and weeds in untreated area at the right.

*MC-2  
makes  
the difference*

A simple, low-cost treatment with Dowfume MC-2 helps to insure strong, healthy seedlings in both indoor and outdoor beds by removing weed competition and root-attacking parasites. Dowfume MC-2 controls most weed and grass seeds, grass stolons, roots of perennial plants, nematodes and soil insect pests *throughout the tilled layer of soil*. Extensive tests have shown that most of the weed seeds and certain disease organisms present in the soil are controlled by proper treatment with Dowfume MC-2.

If you want a quick, effective, economical way to fumigate your plant beds before seeding, ask your Dow dealer for Dowfume MC-2, the new Dow Methyl Bromide-Chloropicrin mixture.

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN



sin all report a satisfactory spring business. Although I have not done much traveling, I believe that there is about the usual supply of stock available in the nurseries in this section.

"Favorable growing conditions stimulated a good growth on most varieties of evergreens and deciduous trees and shrubs. During the middle of June, we had rains throughout Wisconsin, which improved farm crops materially. Therefore, crop conditions at the present time are favorable, and this should stimulate sales in the agricultural districts.

"Labor was more plentiful this spring than in previous years, and this was a help to nurserymen in digging and delivering their orders. Probably there will be much more labor available for nursery work during the remainder of this year than there was a year ago."

#### Unseasonable Weather in Michigan.

Because of several days of heat during early April at Pontiac Nursery Co., Romeo, Mich., stock advanced more quickly than usual, and many items had to be balled and burlapped, according to B. J. Manahan, who reports:

"Business is fairly good, with many orders which are somewhat

### THE IDEAL PIPE FOR IRRIGATION PURPOSES!

4-in. and 6-in. NEW lightweight, high-pressure pipe, 20-ft. lengths, complete with new couplings, gaskets and bolts—all ready for quick installation.

**IMMEDIATE SHIPMENT ON AN OUTSTANDING GRADE OF PIPE — PRICED TO SELL!**

Because of its light weight, one man can carry a joint of 4-in. pipe and two men can easily carry a joint of 6-in. pipe. The couplings are complete and by reason of their simple construction can be applied with common labor—just a matter of screwing together a couple of bolts.

Also a complete stock of all other size pipe from 1½ ins. OD in diameter on up, in either new or a No. 1 grade of used pipe.

STEEL BUILDINGS—all sizes and types, from 4,000 sq. ft. and larger.

**LOUIS GREENSPON, Inc.**  
OVERLAND 14, St. Louis County, Mo.  
Phone: Winfield 5130

### Pronouncing Dictionary

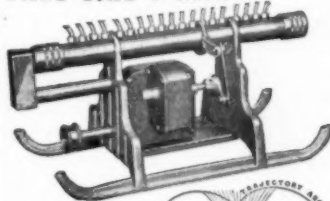
of Plant Names and Botanical Terms

64 pages, 3000 names, **25¢** per copy

**AMERICAN NURSERYMAN**  
343 S. Dearborn St. Chicago 4, Ill.

### ACME Shower Queen "RAINS OVER ALL"

**300 GALLONS PER HOUR  
FALL LIKE Rain**



3250 sq. ft.  
RECTANGULAR  
COVERAGE



**AMERICA'S FINEST CONTRIBUTION TO  
COMMERCIAL AND CONTEMPORARY  
HORTICULTURE CARE**

SHOWERS when you need them—Shower Queen's oscillating action distributes water in natural rain-like manner. Fully automatic. Easily repositioned without shutting off the water. Small plots or large expanses accommodated by regulating volume at faucet. Built of finest materials, precision machined for long and dependable service. Simple hand adjustment solves every irrigation problem. Operates on either domestic or municipal systems. Positively guaranteed.

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DEALER INQUIRIES WELCOME**

**ACME SPRINKLERS**  
412 WALBRIDGE ST. KALAMAZOO 3, MICH.



## SUPPLIES FOR THE NURSERYMAN

PLAIN and CREPED  
WATERPROOF PAPER  
KRAFT WRAPPING PAPER—  
GUMMED KRAFT TAPE  
Paper Towels—Toilet Tissue

TWINES and CORDAGE  
SISAL, COTTON, JUTE  
Baler and Binder Twine  
Manila and Sisal ROPE

Packing, Shipping and Storage Supplies for the Nursery Trade.  
Write for samples and prices.

### SCHWARZ PAPER CO.

1400-1436 South Canal St.

Chicago 7, Ill.

Branch Houses at: Madison, Wis.; Bloomington and Peoria, Ill.; Kokomo and South Bend, Ind.

smaller than in years past. However, we had difficult weather in which to get the material dug and delivered, with several days of heat in early April when the temperature averaged from 80 to 90 degrees Fahrenheit. Of course, all the shrubs came out in leaf and flower much earlier than usual, and other stock also advanced. Therefore, many items had to be balled and burlapped in order to be handled at the time of delivery.

"All in all, the demand was fairly good, but the unseasonable weather made it difficult to do business and increased costs to a point where profits were lower than last year.

"Future business in this area will depend greatly on conditions which are hard to foresee at this time. The industrial situation will probably clear itself, but if it does not, then our business for fall will naturally take a slump. If business conditions do improve, then our business will improve accordingly. We are optimistic about the future."

#### No Winter Damage.

There was no winter damage this year to evergreens, roses or other types of stock at the Siebenthaler Co., Dayton, O., according to Clarence O. Siebenthaler, president, who wrote on June 21:

"We have had a most satisfactory spring and, for once, cannot complain much about the weather. Except for a few weeks of extremely high temperatures, which undoubtedly did affect our cash-and-carry business, we have no reason to complain. During the past week we have had more than four inches of rain in slow drizzles in four or five days, so that stock is well set in the field.

"There was no winter damage to evergreens or any other stock in this area. In fact, for the first time we can recall, roses came through the winter without injury of any kind. As a result, they have made a spectacular showing, which may work

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two ways. It may induce more people to plant roses, but, on the other hand, it may mean that relatively few replacements will be made this coming season. I think the latter will prevail, and I expect a slight decrease in demand.

"Our business up to June 1 of this year was about twenty-two per cent ahead of what it was last year on the same date. However, there has been a noticeable falling off since then. This can be accounted for partly by the fact that early in the season the weather was so favorable for planting that much work was done earlier than usual.

"The cash-and-carry business did not increase proportionately, and I think it has had its run. Wholesale sales were considerably greater than last year, and the largest increase was in landscape plantings. This was chiefly on moderate-size homes, where owners are beginning to recover from the pains of the original purchase price. Industrial plantings have increased to the point where they are taking the place of former large estate plantings.

"Fortunately, help has been plentiful, and apparently there will be little trouble in obtaining an adequate supply for the next year or so because industry generally has been laying off a large number of men."

#### Ontario Has Dry Season.

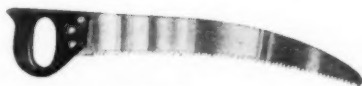
Although the driest spring season that Ontario, Canada, has had for many years allowed nurserymen to complete work in the fields unhampered, it also caused the loss of many cuttings and damaged newly planted evergreens, reports Norman J. Scott, manager of Brookdale-Kingsway, Ltd., Bowmanville, Ont. Mr. Scott writes:

"Spring was at least two weeks early in this area this year, and practically no time was lost in outside operations because of rainy weather. Demand was excellent. Our sales increased twenty-six per cent, and when the season ended, thanks to two or three large buyers who are end-of-the-season bargain hunters, we did not have a wheelbarrow full of stock to plant back.

"This has been the driest season that Ontario has experienced in many years. Many of the cuttings will be lost, and the newly planted evergreens are taking a beating. There has been no rain here for several days, and the agricultural industry is suffering staggering losses. The demand looks good for next year, especially in the line of ornamental plants, owing to the tremen-

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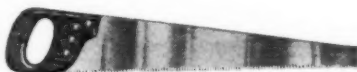
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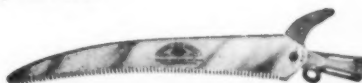
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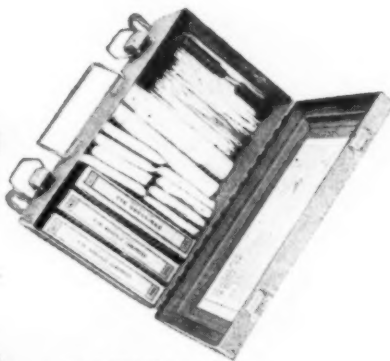


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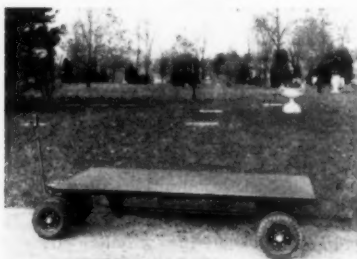


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COMPANY**  
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dous building program, especially in and around the large industrial centers.

"During the past season, we have noticed that customers are price-conscious, and whereas they formerly bought without asking prices, they now want to know definitely what they are buying and how much it is costing them. Our plantings have been increased, and if the drought does not continue, we shall have a larger volume of stock, especially in the fruit line, to offer next season."

**Buyers Are Cautious.**

Although the demand for nursery stock was good this spring at Walter, Nisley & Walter, Inc., Harrisburg, Pa., buyers were more cautious in their spending, according to Wilbur I. Nisley, president, who writes:

"The open winter here and excessive rain during early spring made soil conditions difficult for planting and lawn work. Planting and seeding operations have slowed up at present, but there will be some work during July and August. Labor was plentiful, and, as a result, we were able to obtain a better quality of workers.

"The demand for nursery stock was good, but the buyers were cautious in their spending and more selective in choosing plant materials.

"Although we do not do much cash-and-carry business, the nurseries in our locality that have such a business report that their sales were exceptionally good."

**Drought Curtails Business.**

In reporting on spring business at the Landscape Service Co., Framingham, Mich., Homer K. Dodge comments that the New England drought in late June practically stopped business. He writes:

"We believe that business this spring is equal, or slightly better, than it was last year.

"However, the present New England drought has practically shut off business so that our totals for July 1 may be a little less than those of last spring. Throughout the spring planting season the demand was good for all lines, and, as usual, there were some complaints about prices, but not many refusals to buy.

"We see little reason to either raise or lower prices in the near future."

**Drought Prevents Planting.**

A severe drought prevented Rose-dale Nurseries, Eastview, N. Y., from doing planting late in June, reports Howard C. Taylor, as follows:

"We are prevented from doing further planting by the heat and

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Francis A. Robinson, president, is a partner of Robinson & Parnham, member of American Association of Nurserymen; in active professional landscape practice for 38 years.

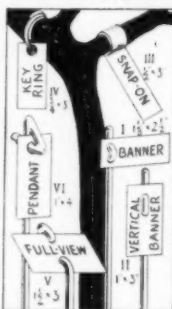
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drought now prevailing in this area. The extreme drought, with no rain for twenty-six days, has made late plantings questionable.

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"Stock generally wintered well because of our extremely mild winter. However, some damage was apparent late in March when the only severe weather of the winter occurred.

"It is our belief that earnest sales efforts for early fall will make 1949 a good year for the nursery trade. This new crop of customers must be educated to the advantage of fall planting."

#### Orders More Numerous.

Orders at Lewis & Valentine Nurseries, Inc., Greenvale, N. Y., were more numerous this year than they were last year, but were smaller, re-

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ports Hewlett W. Lewis, who writes: "Our volume of business was equal to that of last year, although we had to do the work in a shorter time, and this made it more difficult to complete the work with the labor available. The demand for specimen flowering and shade trees and evergreens from homeowners was good. Orders were more numerous but smaller, on both straight sales of nursery stock and on landscape planting jobs.

"The greatest difficulty has been in assembling all of the plant materials necessary to complete a landscape job, since it is necessary to go to many sources to obtain a long list of materials. Rhododendrons, mountain laurel, azaleas, andromedas, ilex and broad-leaved evergreens are practically unobtainable in good sizes for landscape work. Coniferous evergreens are hard to obtain in sizes from five to fourteen feet in height. Our retail prices were the same this spring as last fall. There was some price resistance on varieties and sizes generally obtainable in this section.

"Common labor is plentiful, but trained nurserymen and landscape gardeners are scarce."

#### WAYSIDE GARDENS HOST TO FRENCH NURSERYMEN.

During a five weeks' tour of nurseries and seed companies in the United States, a group of seven French nurserymen and seedsmen visited the Wayside Gardens Co., Mentor, O., June 10, and were entertained by J. J. Grullemans, president of the firm, at his home at Shaker Heights.

The group's interpreter was Alden Duer, New York city, who is on leave from her position in the department of public information of the United Nations. After leaving Painesville, the Frenchmen visited nurserymen and seedsmen at Detroit and Chicago. The group included Jacques Hemeray, Georges Delbard, Pierre Benoist, Maurice Cretin, Martial Berier, Michel Labbe and Pierre Gonet.

AT the national peony show, held June 18 and 19 at Milwaukee, Wis., blue ribbons were awarded to four peony originations of Cottage Gardens, Lansing, Mich.

A WIND, rain and hailstorm which struck Edwardsville, Ill., as an aftermath of the tornado late in May unroofed a sales building of Home Nursery & Greenhouses, near the outskirts of Wood River. The firm's greenhouses at downtown Wood River suffered little damage, according to Ernest Tosovsky, proprietor.

## LAKE COUNTY NURSERYMEN ELECT NEW OFFICERS.

The Lake County Nurserymen's Association held a dinner meeting June 13 at the Parmly hotel, Painesville, O., at which officers were re-elected for the coming year. They were Robert Kallay, Donewell Nurseries, Painesville, president; Stephen Warner, Chagrin Falls, vice-president, and Margaret Sessler, Painesville, secretary-treasurer. Charles Kallay, Kallay Bros. Co., Painesville, was elected to the executive committee, and D. B. Cole, Cole Nursery Co., Painesville, and Thorne Brewster, were retained on the committee.

After a brief discussion, the members decided not to have a display at the Cleveland home and flower show next year.

Henry Kohankie, Painesville, chairman of the committee on Japanese beetle control, gave a complete report on the work of his committee, explaining that, in cooperation with the Ohio state department of agriculture in the ground-dusting program, it had been decided that the Lake County Nurserymen's Association should buy the necessary spray materials. Therefore, bids were sent out, and the contract for all materials needed was awarded to the lowest bidder. Mr. Kohankie stated that the contributions were coming in from members, as well as from other interested persons, but that the quota had not been reached as yet. He urged that contributions be sent in promptly.

A summary of the program which has been planned for entertaining the Ohio Nurserymen's Association August 30 and 31 was given by Bill Cole, Cole Nursery Co., Painesville. The members assured Mr. Cole of their full cooperation in this event.

Robert Kallay, Painesville, president, pointed out that members previously had expressed a desire to tour the Ohio agricultural experiment station at Wooster. A tentative date for the tour was set for July 7.

Howard Graham, Macedonia, was welcomed as a new member of the association.

Following the business meeting, Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus, spoke on the progress of the university's research on nursery propagation, winter storage of plants and roses, weed control and insect diseases.

M. Sessler, Sec'y.

OWEN G. WOOD, president of Wood-Howell Nurseries, Inc., Bristol, Va., spent several weeks in Florida during May and June.

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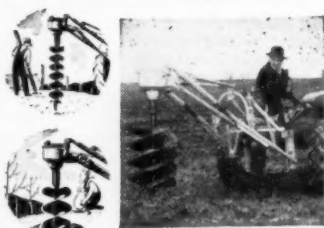
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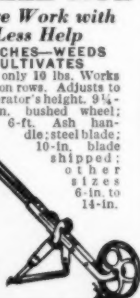
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## FOUR SIMPSON BROTHERS PULL TOGETHER.

A unique record of having pulled together over a long period of time is afforded by the Simpson brothers, of Vincennes, Ind. They were born during the 70's and early 80's of the past century. Three are still active in business. They have demonstrated once more that brothers can make it profitable by hanging together. Theirs is a record of high honesty and consistency, as well as good citizenship.

Harry D., 78, is a widower and the father of two daughters, with one of whom he now makes his home at Elmhurst, L. I., N. Y. His health is somewhat precarious, and he is the only one of the brothers who has given up activity. Robert A., 75, the father of five children, lives on the old place near Vincennes, where all were born. Ray C., 66, the father of one daughter, lives at Tallahassee, Fla., where he is chief seed inspector for the state department of agriculture. Charles A., now 73, is living at Monticello, Fla., with his third wife, the first two having died. All four brothers are Greek letter fraternity members: Harry, Phi Kappa Psi; Robert, Sigma Xi; Charles, Sigma Nu, and Ray, Sigma Pi and Alpha Zeta.

The two oldest brothers, Harry and Robert, were partners in the nursery and apple-growing industry at Vincennes for fifty-five years. Two sons of Robert then bought their uncle's interest, and Harry retired to New York to live. In 1906, shortly after graduating at Cornell University, with the help of Harry and Robert, Ray bought out J. F. Jones, a pecan nurseryman at Monticello, Fla., and became the resident manager. The business grew rapidly so that, in 1911, Ray needed an active partner. He persuaded Charles to give up a promising career as an electrical engineer with the Kellogg Switchboard Co., of Chicago, and to join him in the pecan nursery. Together the brothers planted pecan orchards at Monticello and peach and pecan orchards near Albany, Ga. Charles bought the holdings of the two older brothers, Harry and Robert, at Monticello. In 1927, Charles' sons became interested and purchased Ray's share in the Monticello company.

Charles and his sons are owners of a huge, 3-story frame building at Monticello, on which is printed in large letters "The Simpson Nursery Company." The firm probably does more business in selling farm seeds



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than pecan trees, although, when visited in February, there were enough pecan trees heeled in outside the building to plant a large farm.

Richard Simpson, oldest son of Charles, is a member of the Florida legislature and in 1943 he was speaker in the house of representatives. The late H. K. Miller, also a prominent and highly respected nurseryman of Monticello, in the winter of 1946-47, in answer to a question concerning Richard, replied unhesitatingly, "He's on his way to the chair of governor of Florida."

The Simpsons acquired international status many years ago, in selling fruit trees abroad from Vincennes and pecan trees from Monticello.

Clarence A. Reed.

THE firm at Serskamp, Belgium, formerly known as W. E. & R. Van Herreweghe Export Nurseries, is now the William Van Herreweghe Export Nurseries.

BECAUSE of ill health, N. N. Oslund, who has operated Oslund's Nursery, Cambridge, Minn., since 1907, has sold the firm to Evall Larson. Mr. and Mrs. Oslund have moved to Bloomington, Ill., where they will make their home.

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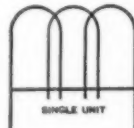
E-Z-GARDS are made of heavy-gauge enamel wire, welded into sturdy and durable units, 21 inches high and 20 inches long. When set up the height can be varied from 12 to 15 inches.

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seeds of different sizes contained in  
the American holly fruit, *Ilex opaca*  
—to investigate the theory that each  
berry contains two large seeds and  
two small seeds and that the large  
seeds always produce pistillate or  
female plants while the small seeds  
always produce staminate or male  
plants—were described in an article  
entitled, "Germination and Sex Popu-  
lation Studies of *Ilex Opaca*," by  
Lela V. Barton and Norwood C.  
Thornton, in the summer quarter  
issue of the bulletin published by the  
Boyce Thompson Institute for Plant  
Research, Inc., Yonkers, N. Y.

To test the validity of this claim,  
as well as to secure germination data,  
fruits were harvested from the insti-  
tute farm at Yonkers in November,  
1933, and December, 1934. The  
fruits were apparently ripe when col-  
lected, all of them having a deep red  
color. The berries were macerated  
individually and the two large seeds  
separated from the two small seeds.  
It was necessary to take the fruits  
one by one, for the large seeds of  
one fruit were no larger than the  
small seeds of another fruit. Similarly  
the small seeds of some of the berries  
were comparable in size to the large  
ones of other berries. Because the  
two small seeds in some berries were  
intermediate in size between the larg-  
est and smallest seeds, they were  
classified as medium. Thus some  
fruits had two large and two medium  
seeds while others had two large and  
two small seeds. Many of the in-  
dividual fruits contained four seeds  
of approximately equal size and many  
more had three seeds of one size and  
one smaller seed. Where there was  
doubt about the separation into two  
sizes the seeds were discarded. Occa-  
sionally fruits were found with only  
three seeds, and oftener there were  
those with five or six seeds. The seeds  
from the latter were kept as a sep-  
arate lot as reported below. A total  
of 12,000 seeds was used in making  
the tests.

The seeds were planted in soil as  
soon as they were cleaned and graded  
for size. It was recognized that no  
advantage would accrue to fall plant-  
ing over that to be gained by spring  
planting. However, fall planting has  
not been considered harmful to the  
germination of the seeds, and the me-  
chanics of the experiment were fa-  
cilitated by this procedure. A soil  
mixture of equal parts of sod soil,  
granulated peat moss and sand was  
used. For the most part 300 seeds

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were planted in each flat, though some flats contained only half that number.

Lots of both large and small seeds were planted November 10, 1933, and December 8, 13 and 20, 1934, totaling 5,700 and 3,600 seeds, respectively. A total of 1,800 medium-size seeds was planted on the three dates in 1934, and the mixed seeds were planted only December 13 and 20, 1934, totaling 900.

No seedlings appeared in any of the flats the first spring after planting. The second spring seedlings appeared aboveground. There was no uniformity, however, in the actual number of seedlings produced. For example, the different plantings of the large seeds yielded from seven to thirty-six per cent seedlings after two winters in the soil.

More seedlings appeared after the third winter. There was much less variation in the germination percentages obtained from different flats of any given lot at this time. Thus the different plantings of the larger seeds yielded from forty-one to sixty-five per cent seedlings after three winters in the soil. When the totals for the different sizes of seeds are compared, it becomes evident that much higher seedling production was secured from medium and large seeds, sixty-four and fifty-seven per cent, than from the small seeds, twenty-four per cent. This may have been because many of the small seeds were empty or contained embryos of low vitality.

There was some indication that the 1933 crop of large seeds may have been inferior in quality to the 1934 collections, since only forty-one per cent of the former produced seedlings after three winters, while fifty-three to sixty-five per cent of the latter germinated. The corresponding small seeds, however, were equal in germinating ability to those harvested in 1934.

The two plantings of mixed lots taken from berries containing five or six seeds each differed greatly in their germination behavior, one lot exhibiting twice the germinating capacity of the other.

Rearranging the data to show the effect of seed lot or planting date on subsequent seedling production, the 1933 crop again made a poor showing. Compared with the lots of 2,400, 3,600 and 3,600 seeds planted, respectively, December 8, 13 and 20, 1934, and producing twenty-two, nineteen and eleven per cent seedlings after two winters and forty-seven, forty-eight and fifty-six per cent seedlings after three, the 2,400 seeds planted November 10, 1933, yielded only six per cent seedlings



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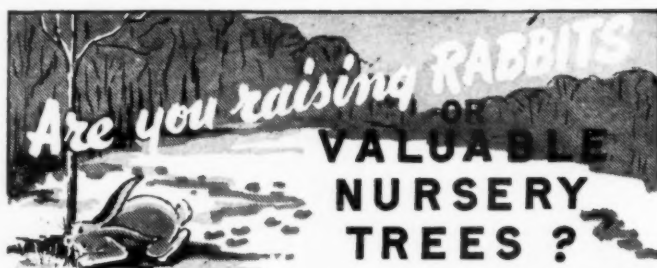
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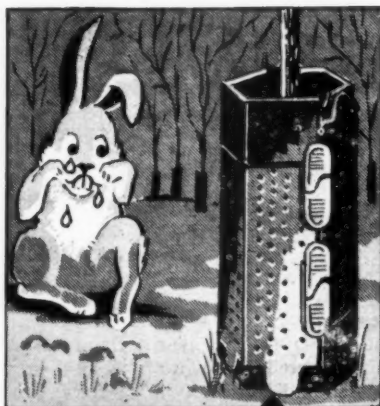


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after two winters and only thirty-three per cent seedlings after three.

Whether this was caused by the earlier harvest, poor-quality seeds or the environmental conditions which prevailed after planting is a matter of conjecture. It was clear that this poor performance could be attributed to the large seeds rather than the small seeds in the berries. This might indicate a lack of full development of the large seeds of this particular crop at harvest, which was at least one month earlier than for any of the 1934 collections. The planting date was also the approximate harvest date, since all seeds were planted within four days after collection.

The grand total of seeds used was 12,000. Seedlings numbering 1,757 were produced after two winters and 5,654 appeared after three winters. The final germination percentage was forty-seven when all classes and plantings were considered together. This is approximately the percentage that has been reported by others. The experiments indicate that at least part of the low germination percentage can be traced to the small, and therefore probably poorly developed, seeds in the fruit. In nature, however, a very much smaller germination percentage has been reported. S. A. Ives stated: "The ratio of germination in nature, under favorable conditions, is not over 1:1,000,000, while the average for the range probably would be about 1:10,000,000." He listed a tough woody pericarp, an immature embryo and low water supply as causes of germination failures.

#### Staminate and Pistillate Plants.

In May, 1939, 1,255 of the seedlings produced from the germination tests described above were set in the field. These were selected from lots representing the different seed sizes and planting dates. Also both 2-year-old and 3-year-old seedlings were transplanted. The primary purpose here was to find whether any relation existed between the size of the seed and the sex of the seedling produced.

The first plants flowered in 1942. Of a total of twenty-five which bloomed at that time, twenty-three were staminate and two pistillate. The following year new plants flowered, bringing the total to forty-eight, of which forty-one were staminate and seven were pistillate. The great preponderance of male plants among the early-flowering individuals was not correlated in any way with seed size.

To date, of the 543 large, 383 medium, 201 small and thirty-eight



mixed seedlings in the field, forty-six, twenty-three, twenty-three and zero per cent, respectively, flowered, and of the flowering seedlings, the small seeds produced the greatest number of staminate, sixty-eight per cent, with the large and medium seeds producing sixty-four and sixty-two per cent. Thirty-eight per cent of the medium flowering seedlings were pistillate, while the large seeds produced thirty-six and the small seeds thirty-two per cent. The distribution of staminate and pistillate in flowering seedlings 2 and 3 years old was approximately the same, except that after the third year, the per cent of staminate had dropped from sixty-six to sixty-three, while the per cent of pistillate had increased from thirty-four to thirty-seven.

Of the 189 seedlings planted November 10, 1933, twenty-three per cent flowered and sixty-seven per cent were staminate, while thirty-three were pistillate. The lot of 300, 367 and 399 seedlings in the field, which were planted December 8, 13 and 20, 1934, respectively, yielded between thirty and thirty-six per cent of flowering seedlings, and the distribution of staminate and pistillate among these flowering seedlings approximated the flowering seedlings of the 1933 group, and seedlings from all sizes of seeds were about sixty-five per cent staminate and thirty-five per cent pistillate. Thus, the report was refuted that from each holly berry the two large seeds will produce pistillate plants and the two small seeds will produce staminate plants. Although there is a difference in the germination of seeds depending upon their size, once the seedlings are produced, there seem to be no observable differences in their performance in the field. None of the seedlings from the mixed lots of seeds, which included five or six seeds from each berry, had flowered by 1947, eight years after setting in the field.

By 1944, 193 plants had flowered; 130 were staminate and sixty-three were pistillate, or a ratio of sixty-seven per cent male plants to thirty-three per cent female plants. Essentially the same ratio has been maintained since.

Less than fifty per cent of the total number of plants had flowered by 1947. Although the ratio between the sexes of the total number of plants blooming has remained constant since 1944, it should be pointed out that the final definite ratios could be determined only by extending the time of the experiment until all of the seedlings in the tests had produced flowers.

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2 to 3 ft., B&B.	2.10	2.00
3 to 4 ft., B&B.	2.60	2.50
4 to 5 ft., B&B.	3.10	3.00

### \*THUJA OCCIDENTALIS.

American Arborvitae.	Per 10	Per 100
3 to 4 ft., B&B.	\$ 2.10	\$2.00
4 to 5 ft., B&B.	3.10	3.00
5 to 6 ft., B&B.	3.60	3.50

### \*THUJA OCCIDENTALIS GLOBOSA.

Globe Arborvitae.		
18 to 24 ins., B&B.	1.60	1.50

### \*TAXUS CUSPIDATA CAPITATA.

Upright Yew.		
24 to 30 ins., B&B.	4.10	4.00
30 to 36 ins., B&B.	5.10	5.00
36 to 42 ins., B&B.	6.10	6.00
42 to 48 ins., B&B.	10.00	

### \*TAXUS CUSPIDATA.

Spreading Yew.		
*18 to 24 ins., B&B.	3.10	3.00
24 to 30 ins., B&B.	4.10	4.00

### \*TAXUS HICKSI.

Hicks' Yew.		
24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00

### \*TAXUS HATFIELDI.

Hatfield Yew.		
24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00

### \*TAXUS INTERMEDIA.

18 to 24 ins.	4.10	4.00
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### \*TAXUS BREVIFOLIA.

Spreading Yew.		
15 to 18 ins., B&B.	4.10	4.00

### \*RETINOSPORA PLUMOSA.

Plumosa.		
18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

### \*RETINOSPORA PLUMOSA AUREA.

Plumosa Aurea.		
18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

### RHODODENDRON CATAWBIENSE.

18 to 24 ins.	3.10	3.00
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### RHODODENDRON MAXIMUM.

18 to 24 ins.	3.10	3.00
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### \*ACER PLATANOIDES SCHWEDLERI.

Schwedler Maple.		
2-in., 8 to 10 ft.	6.10	6.00

### \*McINTOSH APPLE TREES.

1 1/2 to 2-in., 8 to 9 ft.	2.50	2.00
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### BLUEBERRY.

Cabot.		
2 to 3 ft.	2.10	2.00
Rubel.		
2 to 3 ft.	2.10	2.00

\*All items starred (\*) can be certified for western shipment.

All Evergreens B&B at List Prices.  
NO BOXING

Deliveries by full truck and carload only—or call for your own stock.  
(Prices subject to change without notice.)